Waldkarsilleonasconopolatilon

Wacker Silicones Corporation 3301 Sutton Road Adrian, MI 49221-9397 (517) 264-8500

RECEIVED 4-8246

March 4, 1994

WMD RECORD CENTER

JAN 09 1995

Ms. Cheryl Howe, Senior Environmental Engineer Michigan Department of Natural Resources Waste Management Division Hazardous Waste Permits Section Ottawa Building South P. O. Box 30241 Lansing, Michigan 48909

Re:

Wacker Silicones Corporation

(formerly SWS Silicones Corporation)

US EPA ID # MID 075400671

RECEIVELL
MAR 9 1994

OFFICE OF RCRA WASTE MANAGEMENT DIVISION EPA PLITON Y

US EPA RECORDS CENTER REGION 5



Dear Ms. Howe:

We currently have a Resource Conservation and Recovery Act (RCRA) Part B Hazardous Waste Storage Permit, which will expire on September 10, 1994.

We are requesting that the Michigan Department of Natural Resources (MDNR) Closure Out this permit and to change the status of our facility to that of Large Quantity Generator.

Enclosed are three copies of the Wacker Silicones Corporation RCRA Closure Plan. Please note that the cost has been updated recently to reflect the 1993 inflation factor. Also included are plot plans of our facility and storage areas.

If you have any questions, please call me at 517-264-8361.

Yours truly,

WACKER SILICONES CORPORATION

Gordon C. Philbrook

Administrator

Environmental Regulations

Certified

CC:

Mr. Martin Jacobson MDNR Jackson Office Mr. Rich Traub

US EPA Region V

WACKER SILICONES CORPORATION

RCRA CLOSURE PLAN

DRUM STORAGE

GORDON

PHILBROOK

ENGINEER

NO.

18243 POFESSIONAL

It is estimated that the storage pad will require closure in about the year 2021. Generally, drum storage areas will be emptied by the removal of the drums to an approved disposer. Only Michigan, US EPA and Wacker-approved haulers will be used. Only US EPA, Wacker and possibly Michigan-approved disposers will be used.

The drum pad will be washed with water and industrial detergent. Washings will be put in drums for disposal by an approved hauler and disposer, if contaminated. Otherwise, the washings will go to the chemical sewer. The entire schedule of closure should take about three months.

After thorough decontamination, the storage pad will be used for storage of hazardous wastes for periods less than 90 days, or other materials for any time.

An independent professional engineer will certify completion of the closure.

See attached forms for the closure plan drum storage area.

Certified, by,

Gordon C. Philbrook

Gordon C. Philbrook
WACKER SILICONES CORPORATION

Administrator,

Environmental Regulations, CHMM,

Professional Engineer,

State of Michigan

PE 18243

Revised: August 24, 1993

WACKER SILICONES CORPORATION

RCRA CLOSURE PLAN

DRUM STORAGE AREA

DATE: August 24, 1993

AREA: 2,500 FT²

AREA DESCRIPTION: Hazardous waste pad; East of HiBay area

CAPACITY: 500 drums

MAXIMUM NUMBER OF DRUMS STORED: 400

WHEN CLOSED: Unknown; estimated in year 2021

CLOSURE COST: \$53,000

WACKER SILICONES CORPORATION RCRA CLOSURE PLAN TOTAL CLOSURE COST

DRUM PAD

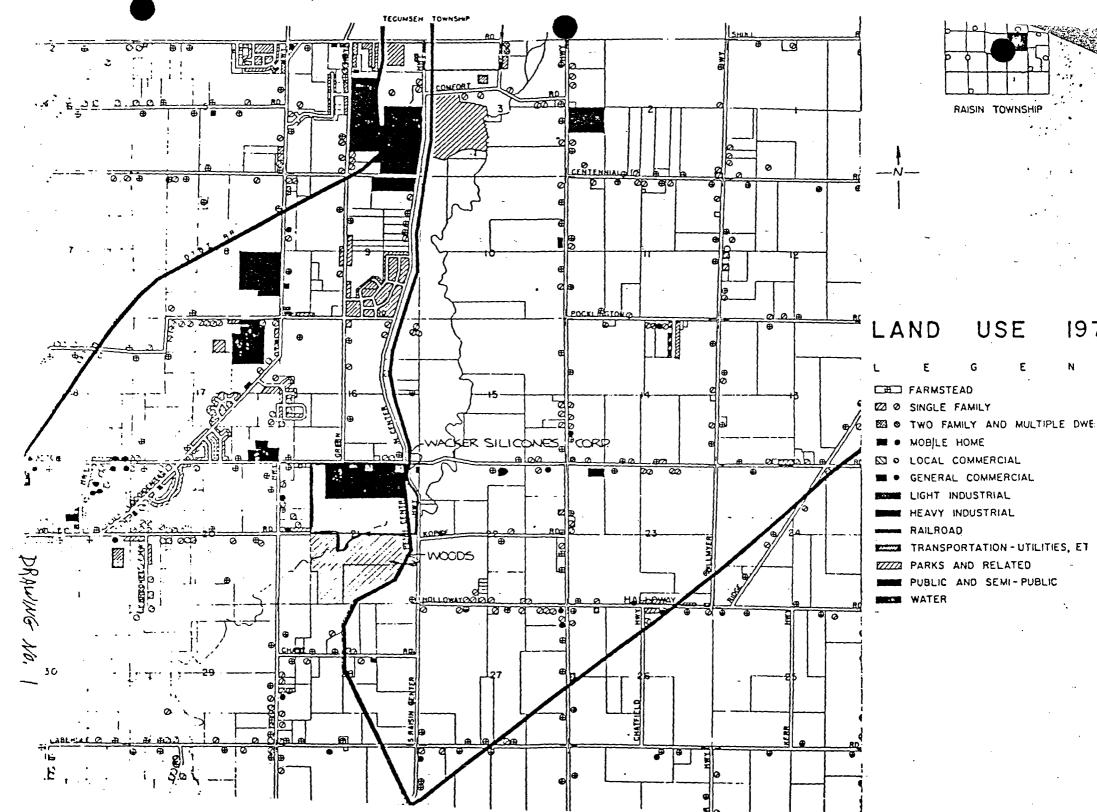
1.	Remove drums 400	X \$120	\$48,000
2.	Decontamination,	sampling	5,000
	1	Net Cost	\$53,000

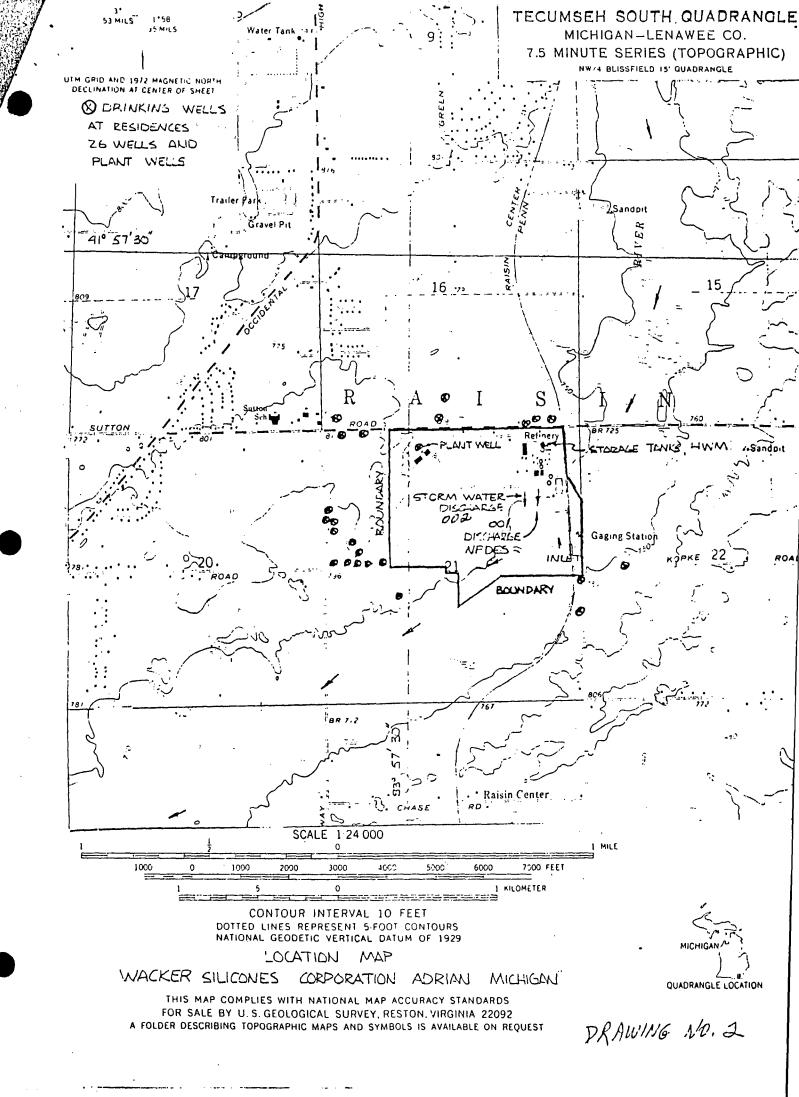
WACKER SILICONES CORPORATION

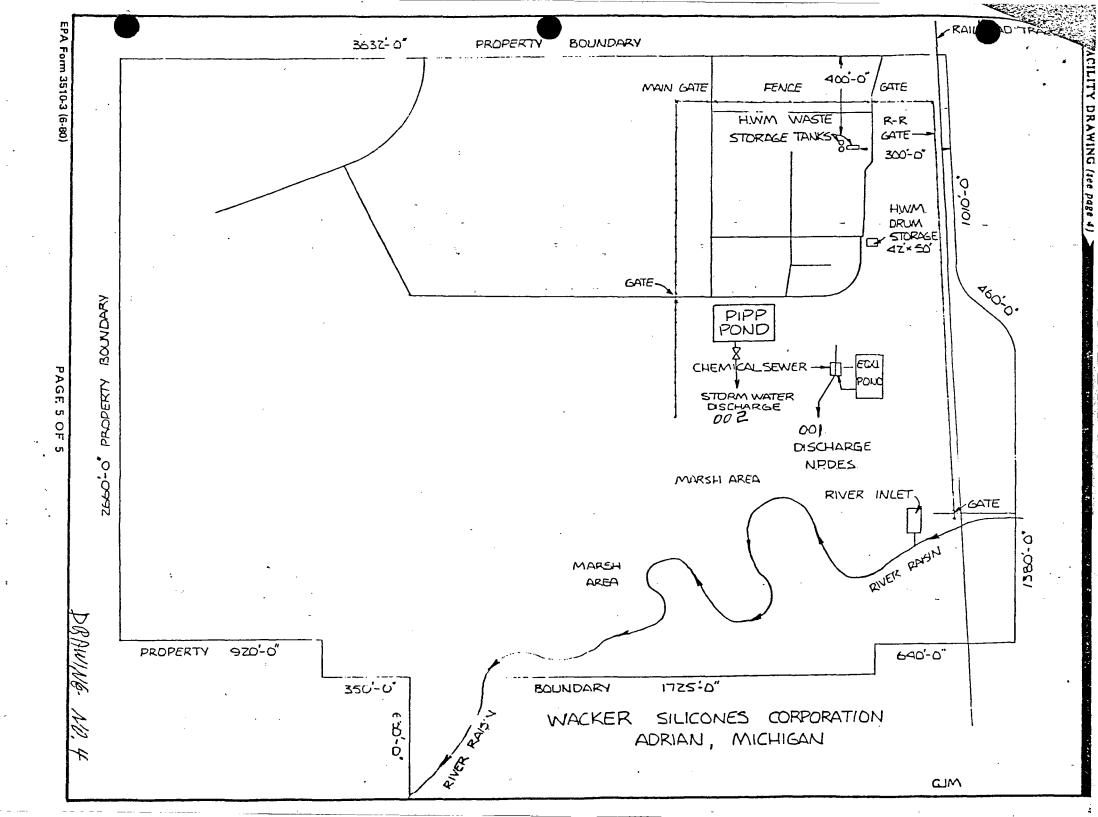
RCRA CLOSURE PLAN

1994 ADDENDUM

- Gross Domestic Product inflation for 1993 is 1.029.
- 2. Closure Cost = $$53,000 \times 1.029 = $54,540$.







RECEIVED WMD RECORD CENTER

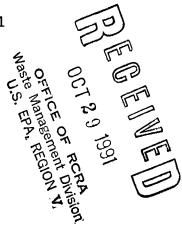
JAN 09 1995

Wacker Silicones Corporation 3301 Sutton Road Adrian, MI 49221-9397 (517) 264-8500 Fax (517) 264-8246

October 24, 1991

Michigan Department of Natural Resources Waste Management Division 1st Floor, South Ottawa Building P. O. Box 30028 Lansing, Michigan 48909

Re: Wacker Silicones Corporation (formerly SWS Silicones Corporation) US EPA ID# MID 075400671



Gentlemen:

We have a final "Part B" Resource Conservation and Recovery Act (RCRA) Permit to store hazardous waste at our facility. The permit will expire on September 10, 1994.

The permit covers storage in containers on a storage pad, and storage in three tanks, T-101, T-105 and T-108.

In accordance with Act No. 64, R 299.9613 (Rule 613), Closure and Post-Closure, this letter is to notify you that we plan to do a partial-closure of this permit by closing-out the T-101 storage tank. This tank was used to store waste 1,1,1-trichloroethane. However, we no longer use this solvent as a cleaning agent.

The tank is now essentially empty. The waste 1,1,1-trichloroethane was sent to a solvent reclaimer, Petro Chem, Inc., in Detroit. Also a waste-water layer was sent to an approved waste treatment company, Environmental Waste Control, Inc. in Inkster. This included the first high-pressure lance washing. A small amount, (about 1,050 gallons) of rusty water remains in the tank.

Attached is a copy of the Wacker Silicones Corporation RCRA Closure Plan. We are proposing a slight deviation from the attached procedure. After the initial washing with a high pressure lauce (which did go to Environmental Waste Control), the subsequent washings, which will be only slightly contaminated, will be taken to our own on-site waste wash-water treating system, which is part of

OCT 2 9 1991

approved NPDES permit operation (Michigan Permit Number 0026034).

We expect to have the completed, certified closure of T-101 in about 90 days. We have arranged for the services of a professional engineer from SSOE, Inc. of Toledo, Ohio, to verify the closure procedure.

If you need any more information, please contact me at the above address, or call me at 517-264-8361.

Yours truly,

WACKER SILICONES CORPORATION

hilbrookpus

Gordon C. Philbrook

podon C. 4

Administrator,

Environmental Regulations

Certified

CC: Mr. Martin Jacobson

(MDNR, Jackson MI) US EPA, Region V

WACKER SILICONES CORPORATION

RCRA Closure Plan

I. Tanks

It is estimated that the tanks will require closure about the year 2001. Generally, tanks containing hazardous waste materials will be emptied to tank trucks for removal and disposal of contents. Only Michigan, US EPA, and Wacker-approved haulers will be used. Only US EPA and Wacker-approved disposers will be used.

Tanks and ancillary equipment will then be decontaminated by washing the tank, piping, pump, and associated equipment with three increments of water and industrial detergent. The washing agent will be recirculated and pumped by high pressure lance. Washings will be put in drums for disposal by an approved hauler and disposer.

The tanks, piping, and associated equipment will then be purged with air. The entire schedule of closure should take about 4 months.

The tanks can then be used to store hazardous wastes for periods less than 90 days.

An independent professional engineer will certify completion of the closure.

II. Drum Storage

It is estimated that the storage pad will require closure in about the year 2021. Generally, drum storage areas will be emptied by the removal of the drums to an approved disposer. Only Michigan, US EPA and Wacker-approved haulers will be used. Only US EPA, Wacker and possibly Michigan-approved disposers will be used.

The drum pad will be washed with water and industrial detergent. Washings will be put in drums for disposal by an approved hauler and disposer, if contaminated. Otherwise, the washings will go to the chemical sewer. The entire schedule of closure should take about 3 months.

After thorough decontamination, the storage pad will be used for storage of hazardous wastes for periods less than 90 days.

An independent professional engineer will certify completion of the closure.

See attached forms for closure plan tanks and drum storage areas.



Certified by,

Gordon C. Philbrook

Wacker Silicones Corporation Administrator, Environmental

Regulations

Professional Engineer

State of Michigan

PE 18243

Revised: February 29, 1988

June 16, 1989

Mr. David Petrovski Geologist US ENVIRONMENTAL PROTECTION AGENCY Region V 230 South Dearborn Street Chicago, Illinois 60604

Re: 5HR-13

Permit Modification MID 075 400 671 Adrian, Michigan 49221

Dear Mr. Petrovski:

This letter is in response to your visit to our facility on April 25, 1989 for a Visual Site Inspection (VSI) and your request for the following enclosed documents:

- Twenty-three pictures, taken by Mr. Wayde Hartwick, US EPA, but developed by Wacker Silicones Corporation, showing the various Solid Waste Management Units (SWMU's) at our facility. We did not delete any of the pictures taken by Mr. Hartwick. The negatives are also included. We included information on the back of each picture indicating the equipment or view shown, the direction, the SWMU #, and the date.
- 2. Table I, which summarizes, in matrix form, the requested information on all 23 SWMU;s, including item description, location, date of starting and closing (if appropriate), size, capacity, material(s) of construction, lining, secondary contaminant, and various comments, including whether hazardous wastes or hazardous constituents were involved.
- 3. An overall facility drawing, taken from one of the hydrogeological studies, showing the perched aquifier contours, labeled "Water Table Contours, November 23, 1983. We marked up this drawing in red to show the location of all 23 SWMU's.
- 4. The completed form, which you gave to us, entitled "Certification Regarding Potential Releases from Solid Waste Management Units".



5. Copies of four questionnaires which were sent to the US EPA in 1988, "National Survey of Hazardous Waste Treatment, Storage Disposal, and Recycling Facilities for 1986", as follows:

Questionnaire A, General Facility Information

Questionnaire H, Wastewater Treatment

Questionnaire O, Tank Systems

Questionnaire GA, General Facility Information

The covers of the four questionnaires have been marked up to show the relationship of various equipment to the 23 SWMU's as listed on Table I.

6. Information concerning the old evaporation pond and the old drum burial site, as requested, including various hydrogeological studies, monitoring well analyses, drum site soil study, contamination information during closing of both sites, and various plant drawings and sketches. Please refer to the attached "Summary index for two disposal sites", which contains 2 overall items, 22 items concerning the old pond, and 15 items concerning the old drum burial site.

After further considerations, we have decided <u>not</u> to pursue the closure of our RCRA Part B hazardous waste storage permit. Please refer to our letter to the US EPA on March 27, 1989, and your response to us dated April 14, 1989. We understand that there may be a permit modification, as outlined in your letters to us dated March 3, 1989 and April 21, 1989.

Please call us if you have any questions at the above telephone number, Extension 361, or direct dial me at 517-264-8361.

Yours truly,

WACKER SILICONES CORPORATION

Gordon C. Philbrook

Administrator,

Environmental Regulations

Certified

CC: No Attachments

D. Ullrich, EPA Certified

K. Burda, MDNR Certified

J. Calamungi

L. Lee, MDNR Certified

J. Patzke

SUMMARY INDEX FOR THE TWO DISPOSAL SITES

OVERALL (2 SITES)

1.	EPA "Notification of Hazardous Waste Site" form 8900-1, which refers to the old evaporation	
	pond and the old drum burial site.	6-8-81
2.	River Water analyses	8-25-83
OLD	POND SITE	
1.	Eckhardt Survey, portion of form concerning old pond	
2.		to 8-8-80
3.	Shrader Lab, well analyses	8-28-80
4.	"Hydrogeological study for Evaporation and Settling	
	Basin" Gilbert/Commonwealth	9-80
5.	GCP to MDNR, sludge characterization	8-27-81
6.	JC to MDNR, Well and pond water analyses	1-29-82
7.	GCP to MDNR, Pond water analyses	5-27-82
8.	Jones and Henry, Well analyses (TOC's)	6-17-82
9.	GCP to MDNR, Well analyses	7-82
10.	Lab report, Well analyses	8-4-82
11.	GCP to Gilbert/Commonwealth, Well elevations	10-82
12.	"Permeability Testing of OW-Series Wells"	
	Gilbert/Commonwealth	10-14-82
13.	"Groundwater Flow Beneath the Sealed Evaporation	
	and Settling Basin"	12-13-82
14.	GCP to MDNR, Well analyses and Mass	
	Loading Calculations	12-23-82
15.	Shrader Labs, Well analyses	10-18-83
16.	J. Calamungi to EPA, History of pond,	
	closure procedure, information on pond water	
	contaminants, pond analyses, closure summary	11-22-83
17.	Lab report, Well analyses, metals	12-2-83
18.	EPA to J. Calamungi, Pond RCRA status	12-13-83
19.	Well analyses summary from 1980 to 1985 (4 wells)	11-18-85
20.	Average summary of OW-1S and OW-1D wells, and	
	mass loading calculation	12-18-85
21.	Well analyses	8-26-88
22.	Well analyses	10-3-88

OLD DRUM BURIAL SITE

1.	Echardt Survey, portion of form concerning old	
	drum burial site and old reactor bed dumpings site	1-79
2.	"Hydrogeologic Investigation of Disposal Area"	
	Gilbert/Commonwealth	8-82
3.	GCP to MDNR, Well analyses metals, TOC, TOH	9-10-82
4.	GCP to MDNR, Well analyses, mass loading calculation	2-24-83
5.	Lab well analyses, metals	12-2-83
6.	"Additional Hydrogeologic Investigations of	
	Disposal Area" Gilbert/Commonwealth	1-12-84
7.	Lab, Well analyses, Chlorides	8-15-84
8.	GCP to MDNR, drum removal, samples analyses	12-11-84
9.	MDNR interoffice, R. Babcock to V. Harris,	
	drum removal summary, analyses of some drums	
	and soil	12-12-84
10.	GCP memo, drum ditch soil analyses	12-14-84
11.	M-4S well average analyses and mass loading	
	calculation	12-18-85
12.	Well analyses <u>summary</u> from 1-5-83 to 11-11-86	11-11-86
13.	Well analyses and chart, M4S	1-6-87
14.	"Soil Contamination Investigation", Soil and	
	Materials Engineers (SME)	3~29-89
15.	Well analyses and M4S well graph	5-5-89

March 27, 1989

Mr. David A. Ullrich
Associate Division Director
Waste Management Division
US Environmental Protection Agency
Region V
230 South Dearborn Street
Chicago, Illinois 60604

Re: 5HR-13

Permit Modification MID 075 400 671 Adrian, Michigan 49221

Dear Mr. Ullrich:

This letter is in reply to your letter dated March 3, 1989 concerning modification of our RCRA Part B permit.

This permit is for storage of hazardous wastes in containers and tanks. The reason that Wacker Silicones Corporation (formerly SWS Silicones Corporation) obtained the storage permit, at that time, was due to lack of adequate disposal contracts which undermined our confidence that we could stay in compliance with the generator "90 day rule", (40 CFR 262.34).

We have subsequently obtained disposal contracts with more companies so that we can comply with the storage time limit for generators.

Therefore, we are requesting that the US EPA allow the closure procedure as per 40 CFR 264.111, 264.113, 264.115, 264.178 and 264.197. A copy of the Wacker Silicones Corporation RCRA Closure Plan, revised 2-29-88, with a 1989 addendum, is attached.

We would start the procedure, as soon as the US EPA approves, and would be completed in about 3-4 months.

MAR 30 1989

OFFICE OF RCRA
Waste Management Division
U.S. EPA, REGION V

Therefore, as recently discussed with you on the telephone, a modification of the permit would not be necessary.

Please call me at the above telephone number, extension 361, for questions or further information.

Yours truly,

WACKER SILICONES CORPORATION

Gordon C. Plillhook

Gordon C. Philbrook

Administrator, Environmental Regulations

Attachments

CC: Mr. Ken Burda, MDNR

Mr. Lee Carter, MDNR

. GCP: Certified

MAR 0 3 1989

5HR-13

CERTIFIED MAIL P 611 589 643 RETURN RECEIPT REQUESTED

Mr. Gordon C. Philbrook Environmental Control Coordinator Wacker Silicones Corporation 3301 Sutton Road Adrian, Michigan 49221-9397

> RE: Permit Modification MID 075 400 671 Adrian, Michigan

Dear Mr. Philbrook:

The facility referenced above currently has a Resource Conservation and Recovery Act (RCRA) permit, issued by the United States Environmental Protection Agency (U.S. EPA). This permit was issued in 1984, prior to the enactment of the Hazardous and Solid Waste Amendments (HSWA) of 1984, and thus did not contain conditions implementing regulations promulgated pursuant to the Amendments. These apply to all facilities, including those with permits issued before the Amendments. (See 53 FR/Wednesday, September 28, 1988, p37914 and 52 FR/Tuesday, December 1, 1987, p.45793, enclosed). Clarified in these rules is the Agency's authority to initiate permit modifications at facilities with existing permits, based on new regulations. The rules also explain that the permit is not a shield for provisions promulgated in accordance with the requirements of the HSWA.

We have determined that your facility is environmentally significant and therefore, corrective action for Solid Waste Management Units (SWMUs) as required by the 1984 HSWA may be necessary. A RCRA Facility Assessment (RFA) is currently being conducted for your facility by the U.S. EPA to further evaluate the need to address releases of hazardous wastes or hazardous constituents from SWMUs. Components of an RFA include a preliminary review, visual site inspection, and a sampling visit, if necessary. A member of my staff will be contacting you within the next month to arrange a site visit.

Should a permit modification be required, only the part of the permit being modified will be affected. Public participation including public notice and

request for hearing would be in accordance with 40 CFR Part 124. If you have any questions, or would like to discuss this further, please contact Mr. Richard Traub of my staff, at (312) 886-6136.

Sincerely,

ORIGINAL SIGNED BY
DAVID A. ULLRICH
David A. Ullrich
Associate Division Director
Waste Management Division

Enclosure

RCRA

PERMITS

INIT. DATE AUTH.

cc: Rett Nelson, ORC Ken Burda, MDNR

> 611 589 643 SENDER: Complete items 1 and 2 when RECEIPT FOR CERTIFIED MAIL ■ and 4.
>
> Put your address in the "RETURN TO" Space card from being returned to you. The return delivered to and the date of delivery. For additionstream for fees and check box(es) for additions to whom delivered, date, and address ↑ (Extra charge)↑ NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL (See Reverse) 3. Article Addressed to: U.S.G.P.O. 1983-403-517 Mr. Gordon C. Philbrook Environmental Control Coorda wacker Silicones Corporation 3301 SUHON ROAD Postage Adrian, Michigan 49221-939 Certified Fee Signature – Addressee X Special Delivery Fee 6. Signature – Agent Restricted Delivery Fee 7. Date of Delivery Return Receipt Showing to whom and Date Delivered 6 1989 MAK PS Form 3811, Mar. 1987 Return receipt showing to whom, Date, and Address of Delivery * U.S.G.P.O. 1987 Feb. TOTAL Postage and F DU Form 3800, Postmark or Date PS 11 IN. MI. MN/WI OH CHIEF CHIEF CHIEF CHIEF CHIEF WHILF A.D.D. DIR

5HR-13

FEB 1 0 1989

Mr. Kenneth Burda Chief, Hazardous Waste Permits Section Waste Management Division Michigan Department of Natural Resources P.O. Box 30028 Lansing, Michigan 48909

RE: Permit Modifications for Corrective Action

Dear Mr. Burda:

As you know, there are several facilities in Michigan that were issued Resource Conservation and Recovery Act permits by Region V prior to the enactment of the Hazardous and Solid Waste Amendments (HSWA) of 1984. These permits did not address corrective action for solid waste management units, which was subsequently required by the 1984 Amendments. Recent interpretations and changes to the regulations, make it clear, that, the United States Environmental Protection Agency may modify existing permits, if the requirements upon which the permit was issued have changed due to new regulations or judicial decisions. We are proposing to initiate permit modifications for corrective action, i.e., impose RCRA Facility Investigations if necessary at:

<u>Facility</u>	<u>Location</u>
Dearborn Refining	Dearborn
DuPont	Montague
SWS Silicones	Adrian
U.S. Chemical	Roseville
Van Waters and Rogers	Taylor

Although these are not all the facilities which have pre-HSWA permits, they have been targeted because of their significance under the Environmental Priorities Initiative and/or they are Superfund sites. Also the permits, which are effective for ten years, still have at least five years remaining on them. We believe that the permit process may be the most expedient manner in which to address the problems at these facilities.

We are currently coordinating our efforts with the Region V, Office of Superfund and need to include the state of Michigan also. Any comments, or concerns, you see that we need to address from the State perspective would be appreciated. It is anticipated that the permit modification process, which will include RCRA Facility Assessments, may take several months, however, we would like to reach a final decision on a permit action by

September of this year. If you have any questions or comments, please send them to me or call me, at 312/886-3136, as soon as possible. Thanks for your assistance.

Sincerely,

ORIGINAL SIGNED BY/ RICHARD TRAUB

Richard Traub, Chief Michigan Section

cc: Karl E. Bremer Marilyn Sabadaszba

bcc: Rich Traub

File

5HR:TRAUB:fmd:2-09-89

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V

DATE: FEB 1 0 1989

SUBJECT: Permit Modifications for Corrective Action at

Superfund Sites

FROM: Richard Traub, Chief

Michigan Section RCRA Permitting Branch ORIGINAL SIGNED BY/ RICHARD TRAUB

TO: Jonas Dikinis, Chief

Michigan/Wisconsin Section

Remedial & Enforcement Response Branch, OS

The RCRA Permitting Branch issued permits to facilities in Michigan in 1984, prior to the enactment of the Hazardous and Solid Waste Amendments (HSWA). These permits were issued for a duration of 10 years. Recent clarification of the regulations allow U.S. EPA to initiate permit modifications, if the requirements upon which the permit was based have changed, due to new regulations or judicial decisions. Prior to the HSWA, corrective action for solid waste management units was not required. We are proposing to initiate permit modifications to impose RCRA Facility Investigations if necessary, at some of these facilities. This is based on environmental significance and remaining permit life.

Four of these facilities: Dearborn Refining in Dearborn; DuPont E.I. De Nemours in Montague; SWS Silicones in Adrian; and U.S. Chemical in Roseville are listed in CERCLIS. We feel it is necessary to coordinate our efforts with your program to determine if the most effective manner of approaching these sites is through the permit modification process. Although the permit modification process may take several months, we would like to take action at these sites as quickly as possible. I request that you or a member of your staff contact me by February 22, 1989, to initiate coordination and discussion of these facilities. I can be reached at 6-6136, if you have any questions or would like to discuss this further, please call. Thank you for your assistance.

cc: Karl Bremer

5HR:TRAUB:fmd:2/9/89

Computer Disc #1:B:Permod.mem

4

NA

SWS Silicones Corporation

3301 SUTTON ROAD • ADRIAN, MICHIGAN 49221-9397 • TELEPHONE (517) 263-5711

REGETVED

JAN 2 4 1986

January 17, 1986

JVVD - AIS U.S. EPA, REGION V

RCRA Activities
United States Environmental Protection Agency
Region V
P. O. Box A3587
Attention: ATKJG
Chicago, Illinois 60690

Re: MID075400671

Gentlemen:

Hazardous Waste Permit Application

5HS-JCK-13

We received your letter, with its accompanying questionnaire relevant to RCRA facilities in interim status.

SWS Silicones Corporation is not in interim status. A final permit under the Resource Conservation and Recovery Act was issued for our storage facility on September 10, 1984.

The provisions of Subsection 3004(u) of the Solid Waste Disposal Act do not apply to facilities permitted prior to November 8, 1984.

Yours truly,

SWS SILICONES CORPORATION

Gordon C. Philbrook

Environmental Control Coordinator

ordon C. Philbrook

GCP:pb 86-03, certified

cc: J. Calamungi

D. McGrade

T. J. Sayers

SWS Silicones Corporation

ADRIAN, MICHIGAN 49221 • TELEPHONE (517) 263-5711

December 17, 19 RECEIVED
DEC 201984

RCRA Activities
Regional Administrator
U. S. EPA, Region V
230 South Dearborn Street

Gentlemen:

Chicago, Illinois 60604

Re: SWS Silicones Corporation MID 075400671

5HW-13

This letter is to confirm that high-level alarms have been installed in tanks T-101, T-105, and T-108 as required in the Compliance Schedule of our RCRA Permit, Section IV.F.

I am certifying as a registered professional engineer that the modification has been constructed in compliance with the permit, as outlined in Section I.D.11.

If you have any questions, please contact me at the above-mentioned phone number, extension 361.

Yours truly,

SWS SILICONES CORPORATION

Gordon C. Philbrook, P. E.

Environmental Control Coordinator

GCP:pb 84-250, certified

cc: Mr. Alan Howard, MDNR; certified

J. Calamungi

M. J. Reale

T. J. Sayers



State of Michigan PE #18243



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY **REGION V**

of KIK AIH

DATE: August 10, 1984

SUBJECT: Review of the Administrative Record

SWS Silicones Corporation

FROM: Chris Christenson, Chief(

State Programs and Information Section

TO: Karl J. Klepitsch, Jr., Chief

Waste Management Branch

Consistent with the agreement reached at the WMB/ORC meeting on April 25, 1984, I have reviewed the AR indicated above. I find the AR and the supporting documents in good order and consistent with the requirements of section 124.9 and section 124.18, and with established WMB procedures.

The materials should be submitted to the ORC.

A. Debus cc:

STATE OF MICHIGAN



NATURAL RESOURCES COMMISSION THOMAS J. ANDERSON E. R. CAROLLO MARLENE J. FLUHARTY STEPHEN F. MONSMA O. STEWART MYERS RAYMOND POUPORE

HARRY H. WHITELEY

JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

STEVENS T. MASON BUILDING BOX 30028 LANSING, MI 48909

RONALD O. SKOOG, Director

June 6, 1984

U. S. Environmental Protection Agency Region 5 230 Dearborn Street Chicago, Illinois 60604

ATTENTION: Mr. Mike Ohm

Dear Mr. Ohm:

The Wildlife Division of the Michigan Department of Natural Resources, has reviewed the notice of intent to issue a Resources Conservation and Recovery Act (RCRA) permit for SWS Silicones Corporation (SWS), Adrian, Michigan, to operate a hazardous waste storage facility on Sutton Road, Adrian, Michigan.

Since the container storage area was renovated in July, 1983, in order to fully comply with RCRA regulations, there appears to be no significant conflict with wildlife interests. Therefore, Wildlife Division defers to certain other divisions of the department with more expertise in this environmental area for a more critical appraisal of hazardous waste storage and disposal requirements.

Sincerely,

Charles Guanther, Chief

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The state of the

BRANCH

Wildlife Wivisjon

517-373-9310

CJG/MC/sam cc: Tucker

Anderson

Elden

Mikula

137-50

1/84

SWS Silicones Commission

ADRIAN, MICHIGAN 49221 • TELEPHONE (517) 263-5711

DECEIVED JUN 25 1984

> WMD-RAIU EPA, REGION V

June 18, 1984



Mr. Michael Ohm U.S. EPA Region V Waste Management Branch 230 South Dearborn Street Chicago, Illinois 60604

VVASTE MANAGEMENT

Re:

: SWS Silicones Corporation

MID 075400671

Dear Mr. Ohm:

This letter concerns some items in the preliminary draft for the RCRA-B permit for our facility. Most of the comments are of a minor nature (typographical errors, etc.) but two are of major concern to us. We discussed some of these with Mr. Allen Debus by telephone on May 23, 1984, and again on June 6, 1984.

One main item is the maximum quantity of 55-gallon drums to be held in the designated storage area. This is discussed in section III, (Storage in Containers), A. (Waste Identification), last sentence. Using the requirements of 40 CFR 264.175(b)(3), the maximum drum storage could be 800 drums. The 800 drum quantity is discussed in the RCRA-B application, Section D, D-la, second sentence, and also fifth line from the bottom of the page. Please note that we also stated in the RCRA-A permit application, form 3, page 1, that the process design capacity for S01 storage was 44,000 gallons (800 drums). However, since the Closure Plan is based on 500 drums, we are formally requesting that the maximum quantity be listed as 500 drums. In the future, if we need to update the Closure Plan and/or the Financial letter of credit amount, we may ask for the maximum quantity to be 800 drums. Note that this is not a change in plant facilities, just a correction of a misunderstanding.

A second main item concerns section III, (Storage in Containers), C. (Compatibility of Waste with Containers). The permit indicates that wastes must be in D.O.T. 17E or 17H type steel drums. In the RCRA-B application, page D-3, we also stated that "some drums, used for in-plant storage and transfer operations, are steel drums in good condition". It is our understanding that all hazardous wastes do not have to be stored/shipped in D.O.T. specification drums. We are formally requesting that the permit refer to "steel containers in good condition". The special requirement for Cyclizer Waste and HCR Vent Waste is proper.

137370

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RAVS Sill outer Componition

Mr. Michael Ohm U.S. Environmental Protection Agency Page 2

Various minor items in the preliminary draft are as follows:

- 1. Statement of Basis, page 1, the term "alkaline fluid", which appears twice, should be "OH-endblocked silicone fluid".
- 2. Statement of Basis, page 1, the term "band ply tubes" should be "band ply lubes".
- In Section III, (Storage in Containers), A.a. "Spend" should be "Spent".
- 4. Attachment Five Closure Plan. The three pages, App. F-9, App. F-10, and App. F-11 are not required, as the updated Closure Plan costs shown on page App. F-8 reflect 1984 values.

If there are any questions, please call us. We trust that these changes will be made, before issuance of the permit.

Yours truly,

SWS SILICONES CORPORATION

Gordon C. Philbrook

Environmental Control Coordinator

ordon C. Philbrook

GCP:pb 84-108, certified

cc: Mr. A. A. Debus, EPA, Region V; certified

Mr. W. C. McIntosh, MDNR; certified

J. Calamungi

G. F. Lengnick

M. J. Reale



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5

230 SOUTH DEARBORN ST. CHICAGO, ILLINOIS 60604

REPLY TO ATTENTION OF:

MAY 1 5 1984

MEMORANDUM

SUBJECT: Review of Draft Permit SWS Silcones Corporation

Adrian, Michigan MID075400671

FROM: Michael Berman

Assistant Regional Counsel

TO: Alan Debus

1. Public Notice Memo - paragraph 1, line 4, a not an.

2. Statement of Basis - page 2, bottom. Is this appropriate place for Allen's name.

- 3. Statement of Basis page 3. Section E is different than that used in other permits. (i.e. Dupont)
- 4. Statement of Basis -
 - A. Page 4, I.D. #16 Reference should be 270.30(1)(10) instead of (1)(7) and
 - B. Page 4, I.D. #17 Reference should be 270.30(1)(11) instead of (1)(8).
 - C. Page 5, What about copies of Plan? (264.53)(i.e. Dupont)
 - D. Page 5, What about required notice? (264.12)
 - E. Page 5, What about preparedness and prevention?
 - F. Page 5, What about the Manifest System?
- 5. Cover letter of permit is missing.
- 6. Signature page of permit is missing.
- 7. Paragraph on Documents to be Submitted Prior to Modification (IG) is missing.
- 8. Paragraph on Required Notice (See II B) is missing.
- 9. Paragraph on Location Standards (See II G) is missing.
- 10. Paragraph on Manifests is missing. (See II I)

137-32

SWS Silicones Corporation

ADRIAN, MICHIGAN 49221 • TELEPHONE (517) 263-5711

Mr. Allen Debus RCRA Activities Part-B Permit Application Technical, Permits and Compliance Section

U.S. EPA, Region V 230 South Dearborn Street

Chicago, Illinois 60604

Dear Mr. Debus:

April 17/

ion WASTE MANASTEMENT MID 075400671

5HW-13

RCRA-B Application

This letter is a follow-up to your phone calls of April 11 and April 12, 1984 on the above subject.

- 1. A work order has been written to install "NO SMOKING" signs at the three storage tanks and the drum storage pad.
- 2. Attached are copies of the "Monthly Safety Equipment Checklists" for the plant operating areas. These are marked
- Attached is a copy of the "Hazardous Work Permit". Note that the plant map, on the reverse side, does not even show the hazardous wastes storage areas. It would be very unlikely to expect any "hot work" to be required in those areas.
- The Engineering department has been requested to design and install a high level alarm system for the three storage tanks. Table 7 (on page F-5) will be modified to include a daily check of the three level alarms.
- In regards to pH (Table 3, page C-23), the only waste which we have which exceeds the pH limits (D002, corrosive) is the Cyclizer Waste, which is a non-aqueous, "goopy" (high viscosity) liquid. This material does not lend itself to a standard pH method. We know the pH is over 12.5 because of the nature of the ingredients; i.e., a lot of KOH is present.
- Attached is a revised up-to-date Closure Cost. Please replace pages App. F-4 thru App. F-8. You can also delete pages App. F-9 thru App. F-11, since the new Closure Cost has the last three year's inflation rates included. Please note that the new Closure Cost is well below the Letter of Credit amount of \$75,000.

ECEIVE APR 1 9 1984

WMD-RAIU

Sincerely,

SWS SILICONES CORPORATION

Gordon C. Philbrook

Environmental Control Coordinator

EPA, REGION 4476, certified: attachs.

CC: W. C. McIntosh, MDNR-certified

J. Calamungi



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MONTHLY SAFETY EQUIPMENT CHECKLIST

	High Bay Area				
	Ground Level	REMARKS (Needs repair or replacing)	0.K.		
1.	Fire extinguisher by R-902 (202)	1.			
2.	Gas mask on west wall (condition & canister)	2.			
3.	Gas mask by men's room (condition & canister)	3.			
4.	Scott Air Pac by men's room	4.			
5.	Stretcher in hallway by men's room	5.			
6.	Safety shower by R-902	6.			
7.	Eyewash by R-902	7.			
8.	Fire extinguisher on east wall by ML pump room	8.			
9.	Safety shower on east wall by ML pump room	9.			
10.	Eyewash on east wall by ML pump room	10.			
11.	Fire extinguisher on west wall below stairs (228)	11.			
12.	Fire extinguisher on west wall by telephone (205)	12.			
13.	Fire blanket on I-beam by T-928 scale	13.			
14.	Fire extinguisher in ML pump room, north door (212)	14.			
15.	Fire extinguisher in ML pump room, south door (211)	15.			
16.	Safety shower on east wall by R-903	٦6.			
17.	Eyewash on east wall by R-903	17.			
18.	Gas mask on east wall by R-903 desk (condition & canister)	18.			
19.	Safety shower on south wall by R-903	19.			
20.	Eyewash on south wall by R-903	20.			
21.	Fire extinguisher by M-916 (206)	21.			
22.	Gas mask by M-916 (condition & canister)	22.			
23.	3-step portable ladder (L 4)	23.			
24.	Fire extinguisher on north wall by T942 scale	24.			
25.	Fire extinguisher by south door by M-922 (208)	25.			
26.	Safety shower by post west of T-927	26.			
27.	Eyewash by post, west of T-927	27.			
28.	3-step portable ladder (no wheels) (L2 & L1)	28.			

			(1)2			
	High Bay Area .					
	lst Level	REMARKS (Needs repair or replacing)	0.K.			
٦.	Fire extinguisher by top of stairs by M-922 (210)	.1.				
2.	Fire extinguisher on handrail by T-942 (226)	2.				
3.	Gas mask by fire extinguisher #226 (condition & canister)	3.				
4.	Eyewash by T-942	4.				
5.	Safety shower by T-942	5.				
6.	Gas mask by top of T-927 (condition & canister)	6.				
7.	Fire extinguisher by top of T-927 (209)	7.				
8.	Fire extinguisher above R-903 (216)	8.				
9.	Gas mask above R-903 (condition & canister)	9.				
10.	Gas mask on handrail by R-905 (condition & canister)	10.				
11.	Fire extinguisher on handrail by T-928 desk (215)	11.				
12.	Safety shower by top of T-928	12.				
13.	Eyewash by top of T-928	13.				
7	Fire extinguisher on handrail by R-902 (214)	14.				
15.	Emergency light by office door	15.				
16.	Emergency light above racks	16.				
	2nd Level	REMARKS (Needs repair or replacing)	0.K.			
1.	Fire extinguisher by WFE (218)	1.				
2.	Gas mask by WFE (condition & canister)	2.				
3.	Fire extinguisher above R-903 (217)	3.				
4.	Gas mask above R-903 (condition & canister)	4.				
	3rd Level & Penthouse	REMARKS (Needs repair or replacing)	0.K.			
1.	Fire extinguisher by R-903 column (221)	1.				
2.	Gas mask by R-903 column (condition & canister)	2.				
3.	Fire extinguisher by top of R-910 column (220)	3.				
4.	Gas mask by top of R-910 column (condition & canister)	4.				
5.	Gas mask in penthouse (condition & canister)	5.				
6.	Fire extinguisher top of R-901 column (219)	6.				
. 7. <u> </u>	Gas mask top of R-901 column (condition & canister)	7.				

(A)3

Middle Area - High Bay

	Middle Area - H		
	Ground Level	REMARKS (Needs repair or replacing)	0.K.
_	di dalla Level	(Needs repair or repracting)	1
7.	Fire extinguisher by north overhead door (190)	1.	
2.	Emergency light by steps (north side)	2.	
3.	Safety shower by south overhead door	3.	
4.	Eyewash by south overhead door	4.	ļ
5.	Fire extinguisher by personnel door, south	5.	ļ
6.	Gas mask by bottom of T-962 stairs (condition & canister)	6.	
7.	Emergency light by T-962 stairs	7.	
8.	Fire extinguisher in motor control center (191)	8.	i
9.	5-step movable ladder by F-791 totes (L3)	9.	
10.	3-step movable with handrail (L5)	10.	
	lst Level	REMARKS (Needs repair or replacing)	0.K.
			0.1
1.	Fire extinguisher on south wall by Ribbon Blender (195)	1.	·
	Safety shower by top of M-919	2.	
3.	Eyewash by top of M-919	3.	
4.	Fire extinguisher by top of T-962 stairs (196)	4.	
5.	Gas mask by top of T-962 stairs (condition & canister)	5.	
6.	Emergency light by top of T-962 stairs	6.	!
7.	Fire extinguisher by north door	7.	
	Office Area	REMARKS (Needs repair or replacing	0.K.
1.	Two fire extinguishers outside conference room (200 & 201)	1.	-
2.	Fire extinguisher inside conference room door (198)	2.	
3.	Emergency light, stairway	3.	
4.	Fire extinguisher in hallway by drinking fountain	4.	
· 5.	Scott Air-Pack in hallway	5.	•
. 6	Emergency light by General Foreman's office	6.	
	,	1	
	,		ļ

(A)4

Middle Area - Hi Bay

	middle Area -		
	Bottling Room	REMARKS (Needs repair or replacing)	0.K.
1.	Fire extinguisher by south door on east wall (194)	1.	
2.	Safety shower by south door on east wall	2.	
3.	Eyewash by south door on east wall	3.	
4.	Emergency light by south door on east wall	4.	
5.	Fire extinguisher by north door on north wall	5.	
6.	Safety shower by north door on east wall	6.	-
7.	Eyewash by north door on east wall	7.	i
<u> </u>		·	
	Outside Area	REMARKS (Needs repair or replacing)	0.K.
1.	Fire extinguisher outside east door of cold warehouse (148)	1.	
2.	Fire extinguisher outside west door of cold warehouse	2.	
3.	Fire extinguisher outside fire water room of cold warehouse (227)	3.	· · · · · · · · · · · · · · · · · · ·
	Fire extinguisher, north side of new hot room	4.	<u> </u>
5.	Fire extinguisher by underground tanks	5.	
6.	Fire extinguisher, new motor control center (225)	6.	
7.	Emergency lights, south & north sides of cold warehouse	7.	
8.	Large portable ladder, cold whse. (L6)	8.	
	Middle Warehouse	REMARKS (Needs repair or replacing)	0.K.
1.	Fire extinguisher, west wall (next to racks)	1.	
2.	(18) Fire extinguisher, aisle between rows b & c (12 & 13)	2.	
3.	Fire extinguisher (fence by transformer) (14)	3.	*
4.	Fire extinguisher, aisle between rows d & e (15 & 16)	4.	



Middle Area - Hi Bay - Continued

	middle med in buy - continued				
	Black House	REMARKS (Needs repair or replacing)	0.K.		
1.	Fire Extinguisher, north wall	1.			
2.	Fire extinguisher, south wall	2.			
3.	Safety eyewash, east wall	3.			
4.	Safety shower, east wall	4.			

SRD:jjf 01/26/84

B

POLYMERS SAFETY EQUIPMENT INSPECTION

OPERATOR	DATE
/	

FREQUENCY: WEEKLY

WHEN: MONDAY EACH WEEK

WHO: OPERATOR AS ASSIGNED BY SHIFT FOREMAN.

HOW: TOUR THE DEPARTMENT CHECKING EACH UNIT LISTED FOR CLEANLINESS, ACCESSIBILITY.

TESTING: EACH SHOWER AND EYEWASH SHOULD BE ACTIVATED FOR 5-10 SECONDS. WATER ON

FLOOR AFTER TESTING IS TO BE CLEANED UP IMMEDIATELY.

ACTION:

•			_		•		1
SAFETY SHOWERS & EYEWASH	CL	EAN	ACCES	SIBLE	WATER	FLOW	REMARKS
	YES	ИО	YES	NO	ADEQUATE	INADEQUATE	
1. Cyclics Ground Floor							
2. Cyclics 2nd Floor							
3. P.C. Lab East						 	
4. P.C. Lab West							
5. Fluids Ground Flr. R80	2						
6. Fluids Ground Flr. R80	14						
7. Fluids 2nd Floor R802							
8. Fluids 2nd Floor R805							
9. P.C. Lab West Sink							
10							
11.							





REMAN	DATE
OPERATOR	

FREQUENCY: MONTHLY

C505 2nd Level

WHEN: TO BE CONDUCTED DURING THE FIRST FULL CALENDAR WEEK EACH MONTH.

WHO: THE SHIFT FOREMAN ON THE 8 X 4 SHIFT ACCOMPANIED BY ONE OPERATOR. (IT IS SUGGESTED

THAT THE OPERATORS BE ROTATED).

HOW: TOUR THE DEPARTMENT CHECKING EACH UNIT LISTED, PAYING CLOSE ATTENTION TO CLEAN-

LINESS, ACCESSIBILITY, PHYSICAL CONDITION OF THE UNIT AND ITS CONTAINER.

ACTION: NOTE IN WRITING ANY ACTION REQUIRED AND/OR TAKEN TO CORRECT SUBSTANDARD CONDITIONS.

USE BACK OF FORM IF NECESSARY.

SCOTT AIR PAKS	Cl	EAN	ACCE	SSIBLE	PRE	SSURE	REMARKS
	YES	NO	YES	NO	FULL	NOT FULL	
1. Office Hallway South							
2. Control Room							

		-									
GAS	MASKS	CAN:	STER	CANIST	ER DATES	CLE	AN	BA	G COND.	BOX	
		SEALED	UNSEALED	STORAGE	SEAL BREAK	YES	NO	ок	REPLACED		
	,										
1.	Ground Level T-406	j			<u> </u>			<u> </u>			ļ.
2.	Ground Level Cyc.	Bldg.				<u> </u>		ļ			
3.	2nd Floor Cyc. Bld	lg.					<u> </u>				ļ
4.	P.C. Lab North Ben	ch								<u> </u>	
<u>5.</u>	Fluids 2nd Flr. R-	802									
6.	Fluids 2nd Flr. T-	806									
<u>7.</u>	Fluids 1st Flr. R-	801						<u> </u>		_	[
8.	C-503 3rd Deck										
9.	C-505 4th Deck										
10.	C-505 5th Deck										
11.	C-505 6th Deck			,							
12.	2nd Flr. Cyc. Outs	ide									
13.	Drum Building				·						
14	Mixer Area by Cont	rol Pane									ĺ
15.	Solvent Shed										
16.	Fluid 1st Flr. R-8	06									[
17,	C500 1st Leyel										

	2+1/	AREA	SUPERVISOR.	DATE	TIME INSPECTED A.M. SHIFT
·¥	XI Y		HOUSEKEEPING		MAREHOUSE
`	•	Floors			Drums Stacked Neat
		Aisles			Fillers Stacked
		Hold Area			Fillers - Part Bags Put Away
		Returned Goods Area	•		Drums in Correct Rows
٠		Benchos	· · · · · · · · · · · · · · · · · · ·		Drum Tags Facing Out
٠.		Tool Box		• • • • • • • • • • • • • • • • • • • •	
		Lockers	, d		MAINTENANCE & WORK ORDER NUMBER
. !	•	Toilets			Lights
• •		Eyewash Fountain			Fans
		Overhead Doors		-	- Equipment
1	•	.Personnel Doors	A THE STATE OF THE	·	***************************************
			TOOLS	·	
i		Broken		· ·	Lift Truck
		Worn Out			Hoist Chains
:		New Ones Needed			Ladders
		,	SAFETY EQUIPMENT		
:		Safety Shovier			Foreman
;	•				General Foressan
		, -		• • • • • • • • • • • • • • • • • • • •	

		· PA	ON TH	
,	Month Fire Extinguisher	Checkis	<u>t</u>	$(\mathcal{D})^{*}$
,	Locations	Date . Checked	Checked . By	. Action Taken
	Outside HCR Offices			
2.	South Side Small Package Room			
3.	West Wall outside Label Room			
4.	By Extruder 704			
5.	Between Mixer 701 & 702 Mill			. 4
6.	Between Mill 704 & 708			
7.	South Wall M-603 Area			. !
8.	Opposite M-603 Mixer			
9.	Wall North of Mixer 602			
10:	Wall South of Mixer 601			
11.	Wall West of Mill 703			
12.	South Wall of Chiller Room			
	South Wall of Y-400 Room			
14.	South Wall of Y-400 Room - by D ₃ Tote			
15.	First Level Y-400 Deck - by Stairs			
16.	First Level Y-400 Deck - on Railing			!
17.	Roof Level Y-400 Room - on Railing			
18.	South of Whse 702 - Outside		÷	
19.	South of Whse 701 - Outside			
20.	North of Whse 701 - Outside			
21.	Wall West of M-704		•	
22.	North Wall of Whse 702			
23.	North Wall of Whse 701	·		
24.	Inside Small Package Room			
				• • •
····				
				:

5. 6. 7. 8. 9. 10. 11.

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	GOOD	NEEDS IMPROVEMENT
HOUSEKEEPING		
DIRTY RAGS IN METAL CONTAINER		
DOORWAYS		
FLOOR CONDITION		
TRASH RECEPTICLE		
PIPE RACK		
HOSES ORDERLY		
CYLINDERS CHAINED & CAPPED		
EQUIPMENT	¥1	
EQUIPMENT LOCKED OUT	, , , , , , , , , , , , , , , , , , , ,	
FACE SHIELD NEAR GRINDER		
TOOL REST 1/8"		
FACE SHIELD NEAR CUT OFF		
TORCH GAS CYLINDERS OFF		
GUARDS IN PLACE		
NORTH CRANE		
SOUTH CRANE OH		
SOUTH CRANE BENCH		:
DIE LIFTER		
MANLIFT		
BENJU BOOM	·	
SCISSOR LIFT		
FORK TRUCK (SEE BACK)		
SAFETY		
SPRINKLER SUPPLY VALVE		
EXTINGUISHER 237 EXTINGUISHER 238	·	
EXTINGUISHER 236	· · · · · · · · · · · · · · · · · · ·	
EXTINGUISHER 234		
EXTINGUISHER 235		
EXTINGUISHER 245		,
EXTINGUISHER 244	1	
EXTINGUISHER ON WELDER		
FIRE BLANKET		
FIRE TRUCK (SEE BACK)		

WEEKLY FIRE TRUCK INSPECTION SHEET

GAS TIRES EQUIPMENT: TOOLS FIRE HOSE OZ. BOTTLES MONITOR SCOTT AIR PACS #300 EXTINGUIS-ER GLOVES & GAS MASK SMALL EXTINGUIS-ER SHOP SAFETY INSPECTION FIRE BLANKET STRETC-ER FIRE EXIT SCOTT AIR PAC BOTTLES FORK TRUCK CHECK LIST AREA HOURS TRUCK NO. INSPECTION ITEMS OK NEEDS REPAIR OTHER REMARKS OR OIL HORN BRAKES HYDRO HOSES & BELTS BATTERY WATER LIGHTS SAFETY NEUTRAL SAITCH	BATTERY		LIGHTS
EQUIPMENT: TOOLS	OIL		
TOOLS FIRE HOSE OZ. BOTTLES MONITOR SCOTT AIR FACS #300 EXTINGUISHER GLOVES & GAS MASK SMALL EXTINGUISHER SHOP SAFETY INSPECTION FIRE BLANKET STRETCHER FIRE EXIT SCOTT AIR FAC BOTTLES FORK TRUCK CHECK LIST AREA HOURS TRUCK NO. INSPECTION ITEMS OK NEEDS REPAIR OTHER REMARKS OR OIL HORN BRAKES HYDRO HOSES & BELTS BATTERY WATER TIRES LIGHTS SAFETY NEUTRAL SWITCH			
OZ. BOTTLES		1	FIRE HOSE
SCOTT AIR PACS #300 EXTINGUISHER GLOVES & GAS MAGK SMALL EXTINGUISHER SHOP SAFETY INSPECTION FIRE BLANKET STRETCHER FIRE EXIT SCOTT AIR PAC BOTTLES FORK TRUCK CHECK LIST AREA HOURS TRUCK NO. INSPECTION ITEMS OK NEEDS REPAIR OTHER REMARKS OR OIL HORN GRAKES HYDRO HOSES & BELTS BATTERY WATER TIRES LIGHTS SAFETY NEUTRAL SUITCH			
GLOVES & GAS MASK			
### SAFETY INSPECTION			,
### STRETCHER FIRE EXIT	,		
### STRETCHER FIRE EXIT			
FIRE EXIT_ SCOTT AIR PAC BOTTLES FORK TRUCK CHECK LIST			
FORK TRUCK CHECK LIST AREA HOURS TRUCK NO INSPECTION ITEMS OK NEEDS REPAIR OTHER REMARKS OR OIL Qts OIL HORN BRAKES HYDRO HOSES & BELTS BATTERY WATER TIRES LIGHTS SAFETY NEUTRAL SWITCH			
INSPECTION ITEMS OK NEEDS REPAIR OTHER REMARKS OR OIL Qts OIL HORN BRAKES HYDRO HOSES & BELTS BATTERY WATER TIRES LIGHTS SAFETY NEUTRAL SWITCH	SCOTT AIR PAC BOTTLES		
INSPECTION ITEMS OK NEEDS REPAIR OTHER REMARKS OR OIL Qts OIL HORN BRAKES HYDRO HOSES & BELTS BATTERY WATER TIRES LIGHTS SAFETY NEUTRAL SWITCH			
OR OIL Ots OIL HORN BRAKES HYDRO HOSES & BELTS BATTERY WATER TIRES LIGHTS SAFETY NEUTRAL SWITCH	FORK TRUCK CHECK LIST	AREA HOUR	(5TRUCK NO
OR OIL Ots OIL HORN BRAKES HYDRO HOSES & BELTS BATTERY WATER TIRES LIGHTS SAFETY NEUTRAL SWITCH		·	
OIL HORN BRAKES HYDRO HOSES & BELTS BATTERY WATER TIRES LIGHTS SAFETY NEUTRAL SWITCH Qts Otts Otts	INSPECTION ITEMS	. ' .	
OIL HORN BRAKES HYDRO HOSES & BELTS BATTERY WATER TIRES LIGHTS SAFETY NEUTRAL SWITCH			
HORN BRAKES HYDRO HOSES & BELTS BATTERY WATER TIRES LIGHTS SAFETY NEUTRAL SWITCH			Qts .
BRAKES HYDRO HOSES & BELTS BATTERY WATER TIRES LIGHTS SAFETY NEUTRAL SWITCH	·· <u>·</u> ·································		
HYDRO HOSES & BELTS BATTERY WATER TIRES LIGHTS SAFETY NEUTRAL SWITCH	· · · · · · · · · · · · · · · · · · ·		
BATTERY WATER TIRES LIGHTS SAFETY NEUTRAL SWITCH			
TIRES LIGHTS SAFETY NEUTRAL SWITCH			
LIGHTS SAFETY NEUTRAL SWITCH			
SAFETY NEUTRAL SWITCH	- , p		
		-	
1) 10 10 H 00 H 1 1 1 1 1 1 1 1 1	CHAINS AND LIFT CYLINDER		

SWS SILICONES CORPORATION

CLOSURE PLAN

Tanks ******

DATE 5/3/81	TAG NO. T-101
CAPACITY 25,000 gallon	MATERIAL OF CONSTRUCTION steel
MAXIMUM USUALLY STORED	10,000 gallon
MISCELLANEOUS horizontal	; 200 PSIG pressure rating, 4" breathing
- .	
·	trichloroethane waste solvent
UNLOADING METHOD Wil	den pump thru a GAF-type filter to a
WHEN CLOSED unknown,	estimated 20 years (2001)
CLOSURE COST \$5,290	

SWS SILICONES CORPORATION

CLOSURE PLAN

Tanks

DATE 5/3/81	TAG NO. T-105
CAPACITY 14,900 gallon	MATERIAL OF CONSTRUCTION steel
MAXIMUM USUALLY STORED 9,000 qa	llon
MISCELLANEOUS vertical, 3" vac	/0.5 PSIG pressure rating, 4"
breathing vent w/nitrogen pad;	8" relief valve
NATURE OF CONTENTS various Hi B	
UNLOADING METHOD Wilden p	ump thru a GAF-type filter to a
bulk truck	
WHEN CLOSED unknown, estimated	20 years (2001)
CLOSURE COST \$5,810	

SWS SILICONES CORPORATION

CLOSURE PLAN

Tanks

DATE 5/3/81 TAG NO. T-108
CAPACITY 14,900 gallon MATERIAL OF CONSTRUCTION steel
MAXIMUM USUALLY STORED 9,000 gallon
MISCELLANEOUS vertical, 3" vac/0.5 PSIG pressure rating, 4" breathing
vent w/nitrogen pad; 8" relief valve
NATURE OF CONTENTS RTV mineral spirits waste solvent
UNLOADING METHOD Wilden pump thru a GAF-type filter to a
bulk truck
WHEN CLOSED unknown, estimated 20 years (2001)
CLOSURE COST\$5,810

SWS SILICONES CORPORATION

CLOSURE PLAN Drum Storage Area

DATE 5/3/81		AREA	2,500	Ft ²
AREA DESCRIPTION	N Hazardous Waste	pad: E of	Hi Bav area	
MAXIMUM NUMBER (OF DRUMS USUALLY ST	UKEU 5	00	
WHEN CLOSED L	unknown, estimated	40 years ((2021)	
CLOSURE COST	\$44,500			

TOTAL CLOSURE COST

T-101		\$ 5,290
T-105		5,810
T-108		5,810
East pad		44,500
	TOTAL	\$61,410
COST ESTIMATE, TANKS:		
<u>T-101</u>		
 Sell 10,000 gallon (but, no cre Freight, 3 x \$900 Cleaning solvent Solvent disposal Two (2) operators Cleaning pump 	dit)	\$ 0 2,700 1,210 360 780 240
-	NET COST	\$5,290
<u>T-105 (& T-108</u>)		
 Haul by Systech 9,000 gal x \$.4 Cleaning solvent Two (2) operators Solvent disposal Cleaning pump 	23/ga11on	\$3,810 each 730 730 300 240
	NET COST	\$5,810 each
<u>Drum Pad</u>		
 Remove drums 500 x \$85 Decontamination 		\$42,500 2,000
	-	\$44,500

STATE OF MICHIGAN



JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

STEVENS T. MASON BUILDING BOX 30028 LANSING, MI 48909

RONALD O. SKOOG, Director April 3, 1984

Mr. William H. Miner, Chief Technical, Permits and Compliance Section, 5HW-TUB U.S. EPA - Region V 230 S. Dearborn Chicago, Illinois 60604

> Re: MID075400671 SWS Silicones Part B Technical Deficiencies

Dear Mr. Miner:

NATURAL RESOURCES COMMISSION THOMAS J. ANDERSON

F. B. CAROLLO MARLENE J. FLUHARTY

STEPHEN F. MONSMA O STEWART MYERS

BAYMOND POUPORE

HARRY H. WHITELEY

As requested by your office, I have reviewed the above referenced facility's Part B application for technical deficiencies. A list of technical deficiencies in a draft letter of response is enclosed.

The due date for this review was March 13, 1984. SWS Silicones March 5, 1984 submittal was received by the EPA March 12, 1984 and by the DNR March 15, 1984. Upon review, the submittal was determined to be a minor modification. As per our Cooperative Arrangement, 21 days should be added to our review time, making the new deadline April 3, 1984.

Please do not hesitate to contact me at 517-373-2730 if you have any questions.

Sincerely.

W. C. McIntosh, Engineer

W. C. Me auton

Facilities Permit Unit Hazardous Waste Division

Jodi Traub

Bob Basch (w/attachments)





Mr. Joseph Calamungi Director of Manufacturing SWS Silicones Corporation Adrian, Michigan 49221

> Re: Notice of Technical Deficiency MID075400671 Part B Application

Dear Mr. Calamungi:

The United States Environmental Protection Agency (U.S. EPA) has completed a technical review of your Part B application for a permit to be issued under the authority of Section 3005 of the Resource Conservation and Recovery Act (RCRA), as amended. Pursuant to 40 CFR Parts 122.4 and 124.3, this review was conducted to check for technical adequacy of your application against a list of required information found in 40 CFR Parts 270 and 264.

The U.S. EPA has found your application to be deficient and further clarification and/or supplemental information is needed before a technical review can be completed. You are to provide all requested information in quadruplicate. The due date for the submittal of this information is ______; however, you are encouraged to submit this information at your earliest convenience.

The U.S. EPA intends to work cooperatively with the Michigan Department of Natural Resources (MDNR) in processing your permit application. Should the MDNR become authorized to permit storage facilities during the processing period, the MDNR will make the final determination on your application. A copy of the Part B application has been sent to the MDNR and a copy of your response will also be sent to them.

The U.S. EPA is committed to conducting the RCRA permitting process as promptly and efficiently as possible. Please feel free to contact Mr. Allen A. Debus of my staff at 312-886-6151 if you have any questions regarding our review.

Sincerely,

William H. Miner, Chief Technical Permits and Compliance Section

Attachment

cc: A. Howard, Hazardous Waste Division, MDNR

B. Basch, Lansing District Supervisor

Technical Deficiencies

- 1. The topographic map is deficient. The map must include;
 - a. An area of at least 1,000 feet around the facility,
 - b. A scale not to exceed 200 feet per inch,
 - Elevation contours.

(40 CFR 270.14(b)(19))

- 2. The chemical and physical analyses of waste stored are incomplete. Silicones, fillers and siloxanes are listed in the analyses. These are general classes of materials and need further identification. (40 CFR 270.14(b)(2) and 264.13(a))
- 3. The information regarding tank storage areas is deficient. The following is required:
 - a. Portions of pages D8, D9, and D10 detailing tank design specification diagrams are illegible. Legible diagrams must be submitted.
 - b. A description of feed systems for all tanks,
 - c. A description of the overflow system for tank T-101,
 - d. A description of the pressure relief valves for tanks T-105 and T-108.

(40 CFR 270.16, 264.191 and 264.192)

- 4. The security procedures require further description. Describe the frequency the hazardous waste storage areas are checked during non work hours. (40 CFR 270.14(b)(4) and 264.14(b)(1))
- 5. The inspection schedule and log are deficient. The written schedule must include inspections of safety equipment, emergency equipment and security devices. (40 CFR 270.14(b)(5) and 264.15(b))
- 6. The demonstration of the precautions used to prevent ignition of wastes is inadequate. It must be demonstrated that ignitable wastes are protected from sources of ignition including but not limited to flames, smoking, cutting, welding and sparks. No smoking signs must be placed conspicuously in the ignitable waste storage areas. (40 CFR 270.14(b)(9), 264.17(a), (c) and 264.198(a)(2))

- 7. The closure plan is deficient. The following is required;
 - a. A schedule of closure activity that is detailed enough to allow tracking of the progress of closure.
 - b. The application stated that the waste stored in tank T-101 will be sold. There is no guarantee that the waste will retain its value at the time of closure. Disposal costs must be estimated for this waste and incorporated into the closure plan.

(40 CFR 270.14(b)(13), (14), 264.111, 112 and 142)

1.a - 1.c - Topo map was provided V/Part A. 2. I feel the waste analyses provided one sufficient such that they contain all the ThB. which must be known to treat, store, or dispose of hazardous We have sufficient into an tracks also, I had enough material to

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ASME & API Computer tions

by high level over flow system has been addressed—
by high level prepare relief values are decembed in

A Hay ment 8.

4. I feel this 15 adoptately correct in Part B

SWS Silicones Corporation

ADRIAN, MICHIGAN 49221 • TELEPHONE (517) 263-5711

Deletral WMB 3/23/84

March 19, 1984

Mr. Allen A. Debus

United States Environmental Protection Agency

Region V

RCRA Activities, Part B Permit Application

Technical, Permits and Compliance Section

230 South Dearborn Street Chicago, Illinois 60604

Re: RCRA Part B Application

SWS Silicones Corporation

EPA ID# MID075400671

Dear Mr. Debus:

5HW-13

In the RCRA Part B application update package recently sent to you (March 5, 1984), we inadvertently issued a new page as G-7a when it should have been Appendix G-7a.

Please insert the enclosed page App. G-7a in your binder and remove the page G-7a.

Sincerely yours,

SWS SILICONES CORPORATION

Gordon C. Philbrook

Environmental Control Coordinator

GCP:pb 84-56, certified (4 sets) Enclosure (1)

cc: J. Calamungi

M. J. Reale, Westport

MAR 22 1984

Killerood

WASTE MANAGEMENT BRANCH



Date: 2/2/84 Revision No.: 0

AMENDMENT

- 1. Schedule A is amended by deleting the amount "\$62,200" therein and substituting the amount "\$75,000" in its place and by deleting the date "February 18, 1982" therein and substituting the date "March 31, 1983" in its place.
- 2. Schedule B is amended by deleting the amount "\$62,200" therein and substituting the amount "\$75,000" in its place.

Except for the foregoing amendments, the Trust Agreement shall remain in full force and effect.

In witness whereof, the parties hereto have executed this Amendment as of the day and year above written.

CONTINENTAL ILLINOIS NATIONAL BANK & TRUST COMPANY OF CHICAGO

SWS SILICONES CORPORATION

By:

₩i+7🕹

SECOND VICE PRESIDENT

By: MolSrumer

Title: Vice President & General Manager

READ AND APPROVED:

ENVIRONMENTAL PROTECTION AGENCY

By:

Title: Engage at tol Sugated

App. G-7a

Date: 2/2/84 Revision No.: 0

AMENDMENT

This Amendment, dated this 12 day of 1983, amends the Trust Agreement entered into by SWS Silicones Corporation and Continental Illinois National Bank & Trust Co. dated October 4, 1982 as follows:

- 1. Schedule A is amended by deleting the amount "\$62,200" therein and substituting the amount "\$75,000" in its place and by deleting the date "February 18, 1982" therein and substituting the date "March 31, 1983" in its place.
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CONTINENTAL ILLINOIS NATIONAL BANK & TRUST COMPANY OF CHICAGO

SWS SILICONES CORPORATION

By:

ri+14

SECOND VICE PRESIDENT

By: Motorine

Title: Vice President & General Manager

READ AND APPROVED:

ENVIRONMENTAL PROTECTION AGENCY

By:

Title: English a tol Swenty

App. G-7a

Date: 2/2/84 Revision No.: 0

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CONTINENTAL ILLINOIS NATIONAL BANK & TRUST COMPANY OF CHICAGO

SWS SILICONES CORPORATION

Bv:

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SECOND VICE PRESIDENT

By: Mossimum

Title: Vice President & General Manager

READ AND APPROVED:

ENVIRONMENTAL PROTECTION AGENCY

By:

Title: Engrape tel Sugal

App. G-7a

Date: 2/2/84 Revision No.: 0

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CONTINENTAL ILLINOIS NATIONAL BANK & TRUST COMPANY OF CHICAGO

SWS SILICONES CORPORATION

Bv.

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SECOND VICE PRESIDENT

By: Mossrumer

Title: Vice President & General Manager

READ AND APPROVED:

ENVIRONMENTAL PROTECTION AGENCY

Title: Engrandeted Sugated

SWS Silicones Corporation

ADRIAN, MICHIGAN 49221 • TELEPHONE (517) 263-5711

March 5, 1984

Mr. Allen A. Debus

United States Environmental Protection Agency

Region V

RCRA Activities, Part B Permit Application

Technical, Permits and Compliance Section

230 South Dearborn Street Chicago, Illinois 60604

Re: RCRA Part B Application SWS Silicones Corporation

EPA ID# MID075400671

5HW-13

Dear Mr. Debus:

As discussed on the telephone with Gordon Philbrook, enclosed is the revised Closure Plan (RCRA Part B - Appendix F, Item 7 below).

Also enclosed are the latest updates to the RCRA Part B Application submittal:

- Section C Tables: Please replace Table 1 (page C-2), Table 2 (page C-22), and Table 5 (page C-25) with the revised ones attached.
- 2) Section F: Please replace page F-20 with the revised one attached.
- Section G: Please ADD the attached page G-7A immediately after page G-7.
- Please replace pages I-2, I-3 and I-4 with the revised ones attached.
- Appendix B: Please replace pages App. B-31 to App. B-39 with the revised pages App. B-31 to App. B-37.
- Appendix D: Please replace the whole Appendix D section with the revised Appendix D (Oil and Hazardous Substances - Spill Prevention Control and Countermeasure Plan) attached.
- 7) Appendix F: Please replace the whole Appendix F with the revised Appendix F (Closure Plan) attached.

Please contact us if you have any questions.

Yours truly,

SWS SILICONES CORPORATION

Haikstong Kim Haikyong Kim

Project Engineer

HK:pb 84-22, certified (4 sets)

J. Calamungi

G. C. Philbrook

M. J. Reale, Westport

SWS Silicones Corporation
ADRIAN, MICHIGAN 49221 · TELEPHONE (517) 263-5711
February 3, 1984

Mr. Allen A. Debus United States Environmental Protection Agency Region V RCRA Activities, Part B Permit Application Technical, Permits and Compliance Section

230 South Dearborn Street Chicago, Illinois 60604

Dear Mr. Debus:

Re: RCRA Part B Application SWS Silicones Corporation

EPA ID# MID075400671

5HW-13

This letter is in reference to your telephone call of February 1, 1984.

A. CFR 40, 264.192 (b)(1) (Tank Over-filling Prevention)

We can demonstrate that we meet this requirement as follows:

- 1. The tanks are not used continuously; only batch filling is done from drums or tote tanks (350 to 450 gallons), and then only every few days or even less frequently.
- 2. The tanks are not piped up to the plant or any other source. The drums and/or tote tanks are taken to the tank area by fork lift trucks. There, the containers are connected to the permanent suction piping-pump system and pumped into the tank one drum (or tote tank) at a time.
- 3. The operator is physically present in the tank area during this procedure. He can readily see the tank level gage and can easily judge that one more drum (or tote tank) will not over-fill the tank. He can also readily see the overflow pipe, and could shut off the pump immediately.
- 4. A "running"inventory of the tank is kept in a plant log book and the department supervisor can tell when the tank is even coming close to being full. In fact, we will probably not ever have more than 9,000 gallons in these 15,000 gallon storage tanks (T-105 and T-108). Also, T-101 would probably not ever have more than 15,000 gallons in this 25,000 gallon tank.
- 5. Please refer to pages D-11 to D-15 for more information.

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SWS Silicones Corporation

Mr. Allen A. Debus United States Environmental Protection Agency Page 2

B. Drawings of T-105 and T-108 (pages D-8 to 10)

The attached copy of part of the "original" blueprint on these tanks shows that the welds were "spot" x-rayed.

C. CFR 40, 264.198 (a)(2) (Tank Protection from Ignition)

Refer to pages D-12 to D-15, and the attached revised page F-20.

D. Financial Information

Attached is a new page for Appendix G, App. G-7a, which is an amendment from Continental Illinois National Bank & Trust Company to raise the coverage of the Letter of Credit and Trust Agreement to \$75,000.

E. Revised Closure Plan

As discussed on the phone, we will soon be sending you a revised Closure Plan procedure. This will affect pages I-2 to I-4 and Appendix F.

If there are any other questions or concerns, please let us know.

Yours truly,

SWS SILICONES CORPORATION Philbrook

Gordon C. Philbrook

Environmental Control Coordinator

GCP:pb 84-35, certified

(3 sets)

J. Calamungi cc:

T. J. Sayers

Date: 2/2/84 Revision No.: 01

F-5h Management of Incompatible Wastes in Waste Piles

SWS Silicones Corporation does not have any waste piles.

Therefore, this Section F-5h is not applicable.

F-5i Management of Ignitable Wastes in Tanks

The T-105 and T-108 tanks have a controlled nitrogen pad of about 0.5 PSIG. If the gaseous volume is increased by liquid removal or by temperature drop, nitrogen will automatically bleed into the tank to maintain the pad pressure. Alternately, when the gaseous volume is reduced, some nitrogen (and vapors) are automatically released from the tank, so as not to exceed the 0.5 PSIG. We have a Michigan Department of Natural Resources air permit for the vent releases.

The tanks are well grounded. The fill piping is a dip tube which discharges to the bottom of the tank, thus avoiding static electricity problems. The tanks are located in a remote area from the plant production processes.

Date: 2/2/84 Revision No.: 0

AMENDMENT

- 1. Schedule A is amended by deleting the amount "\$62,200" therein and substituting the amount "\$75,000" in its place and by deleting the date "February 18, 1982" therein and substituting the date "March 31, 1983" in its place.
- 2. Schedule B is amended by deleting the amount "\$62,200" therein and substituting the amount "\$75,000" in its place.

Except for the foregoing amendments, the Trust Agreement shall remain in full force and effect.

In witness whereof, the parties hereto have executed this Amendment as of the day and year above written.

CONTINENTAL ILLINOIS NATIONAL BANK & TRUST COMPANY OF CHICAGO

SWS SILICONES CORPORATION

ву:_

Titld-

SECOND VICE PRESIDENT

By: Mossrumer

Title: Vice President & General Manager

READ AND APPROVED:

ENVIRONMENTAL PROTECTION AGENCY

By:

Title: Engrandetel Swenter

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mr. Joseph Calamungi Director of Manufacturing SWS Stlicenes Corporation Sutton Road Adrian, Michigan 49221

Re: MID075400671

Dear Mr. Calamunoi:

Enclosed is a copy of the final Resource Conservation and Recovery Act (RCRA) Permit for your proposed facility at the above referenced location. effective date of the sermit, as issued, is the date indicated on the cover page of the permit.

The duration of the parmit is ten (10) years. However, the United States Environmental Protection Agency may modify, revoke, reissue or terminate this permit based on causes specified in 40 Code of Federal Regulations (CFR) Section 270.40 and 270.41.

You have the right to appeal any condition of the permit pursuant to 40 Code of Federal Regulation (CFR) Section 124.10. The failure of your company to meet any portion of the permit could result in civil and/or criminal permities.

incerely yours.

Basil G. Constantelos Director Waste Management Division

Enclosures

cc: Alan Howard, MONR

Other

Staff

Pr. Joseph Salamansi Hirrord of Sandfacturing 5/5 hillomes Curporation Adries. Pickings (1973)

Spar Mr. Calkbongit

Thems you for additting the information called for in ay letter of Sutabor 25, 1975, regarding your inactive suprises impropries. The information has been foreigned by the United States confromment of the States confromment of the determination that this surface improvement is super-regulative and cover the Super-regulative and Percently Set (1981) pecause it was removed inactive of the Super-regulative and Percently Set (1981) pecause it cluster with the foreign and Percently Set (1981) pecause it cluster with the intentions of constitution fined dispersi.

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ORIGINAL SIGNED BY WILLIAM H. MINER

Trillan F. Miner, Interdecembers, Corrects and Compilance Section 137-19

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Jedi Trach, (SS)

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if you have any negations regarding this application, pluese contest or. Aller 5. Servs of my staff as (21%) because).

Sincerely gover,

ORIGINAL SIGNED BY WILLIAM H. MINER

 137-18

LUCE BATTE

had: José Trano (55)
Joséph Doyle (516)

SHU-13:	TYPIST 10 thus: THe 12/09/83	AUTHOR	STU #1 CHIEF (0%/83	STU #2 CHIEF	STU #3 CHIEF WEVI	TPS CHIEF	WMB CHIEF	WMD D
DATE	12/07/83	13/17/2			12/11/83	12033		

SWS Silicones Corporation

ADRIAN, MICHIGAN 49221 • TELEPHONE (517) 263-5711

November 22, 1983

Mr. William H. Miner
Chief, Technical, Permits
and Compliance Section
U.S. Environmental Protection Agency
Region V
230 South Dearborn Street
Chicago, Illinois 60604

Re: RCRA-B Application

5HW-13

Dear Mr. Miner:

This letter is a response to your letter of October 25, 1983, concerning the inactive surface impoundment located on our facility.

As you note in your letter of October 25, 1983, SWS has properly filed a notice under CERCLA, Sec. 103(c), covering the inactive surface impoundment. A follow-up CERCLA inspection was conducted by Ecology and Environment Inc. under contract to EPA. An inspection report is being prepared by EPA Region V. We would suggest that any further inquiry be channeled through the Region V Superfund Office in order to avoid duplicative and time-consuming information requests.

It is our position that the impoundment is in no way related to our RCRA Part B application which, as you know, does not include a land disposal facility. The pond, now closed and capped, cannot be considered a TSD facility under RCRA. Nevertheless, we are submitting the requested information for your review.

The following items correspond to the questions posed in your letter:

- 1. The attached Table I outlines the use and closure of the evaporation pond.
- The pond was used in two distinctly different ways over time.
 - A. During 1971-1974, the lime-slurry-silane mixture sent to the pond (see Table I, Item 2) would not have been classified as a hazardous waste under 40 C.F.R., Sec. 261.

137-16

12-1-83

COPY2

SWS Silicones Corporation
Mr. William H. Miner
Chief, Technical, Permits
and Compliance Section

Chief, Technical, Permits and Compliance Section U.S. Environmental Protection Agency Region V Page 2

B. From 1975-1980, the pond received equipment wash waters which did contain traces of various solvents. Under present regulations such waste streams may have been tested for ignitability. However, the low concentrations would have made a positive result extremely unlikely.

Some of the wash waters may also have been independently classifiable as corrosive; however, counter-balancing acid and caustic washes would have achieved instantaneous neutralization. This, coupled with pH adjustment and treatment in the pond, would have resulted in a non-hazardous classification under RCRA (see Table I, Item 3).

- 3. The closure plan, developed with the Michigan Department of Natural Resources input and approval, was meant to constitute final disposal.
- 4. The approved closure plan and certificate of closure is attached; the attachments are numbered 1, 5, and 6.

Yours truly,

SWS SILICONES CORPORATION

Joseph Calamungi

Director of Manufacturing

JC:pb 83-229, certified mail enclosures

cc: C. McIntosh, MDNR, certified mail

G. C. Philbrook

G. L. Ford

T. J. Sayers

TABLE I Historical Outline of Evaporation Pond Pond was built in 1970-1971. From 1971 to 1974, the pond was used as a lime-slurry system to neutralize silanes from the Monomers production area. The pond water was recycled back to the Monomers area for lime-slurry make-up. There was no discharge from the pond. The

3. From 1975 to 1980, the pond was used to treat various plant washwaters by equalization, aeration, neutralization, evaporation, biological activity and settling. Here again, there was no discharge from the pond.

Monomers production area was shut down at the end of 1974.

- 4. We had determined to close the pond in 1979. Flow curtailment was started. By May, 1980, all flows to the pond were stopped and all pipes were cemented closed.
- 5. On September 26, 1980, a proposed corrective program for the removal and proper disposal of the evaporation-settling pond contents, and closure plan for the pond site, was submitted to the Michigan Department of Natural Resources. Refer to attachment 1.
- 6. On January 11, 1982, SWS sent a letter to the Michigan Department of Natural Resources requesting expedition of the closure plan, since there was a Compliance Schedule in the new NPDES permit to have the pond closure completed by October 31, 1982. See attachment 2.
- On April 14, 1982, more data was submitted to the Michigan Department of Natural Resources concerning sludge analysis. See attachment 3.
- 8. On May 27, 1982, more data was submitted to the Michigan Department of Natural Resources concerning pond water analysis. See attachment 4.
- 9. On July 15, 1982, Michigan Department of Natural Resources approved the removal of water from the pond to the chemical sewer treating system. See attachment 5.
- 10. On July 26, 1982, Michigan Department of Natural Resources approved the September 26, 1980 Closure Plan, with minor modifications. See attachment 5.

- ll. Water was removed from the pond to the chemical sewer treating system during last two weeks of July, 1982.
- 12. Pond sludge was fixed with limestone berm mix during August, 1982.
- 13. Clay cap and soil cap was installed during September, 1982.
- 14. Top soil and seeding was done during October, 1982.
- 15. On October 21, 1982, a formal, written "notice of pond closure" was submitted to the Michigan Department of Natural Resources. See attachment 6. The approximate cost of closure was \$150,000.
- 16. Ms. Catherine Morse of the Michigan Department of Natural Resources visited our plant on November 9, 1982. The pond area was inspected by her and verified as closed.

SWS SILICONES CORPORATION

CLOSURE OF EVAPORATION-SETTLING POND Refer to Drawing 0-181

I. Diking

Install dike across the pond, East to West, using Limestone Berm Mix. Top level will be 42" below final cap grade. Pump water from North portion of pond to South portion. This will allow drying and fixation of North portion. This will also facilitate settling and ultimate removal of the water from the South portion.

Berm mix, amount 600 cu yds.

If necessary to further facilitate water removal, it may be necessary to install another dike across the South portion of the pond, North to South. Pump water to Southwest section. This could allow more control and efficiency of removing all the water from the pond.

Berm mix, amount, 600 cu yds.

II. Water Removal.

The South portion can be slowly pumped to the chemical sewer treating system at the rate of 10,000 gallons per day for an estimated 24 days. A study of the pond BOD and chloride levels, and the current stream 001 discharge BOD and chloride levels, indicates that we could handle 10,000 gallons per day of pond water. We may reach the maximum allowed BOD and chloride limits of the NPDES permit. The pond water would be controlled so as to not exceed (on purpose) these limits. As the weather gets colder, the BOD limit will be more difficult to control.

III. <u>Fixation of Sludge</u>

Add Limestone Berm Mix to fill in pond to a level within 42 inches of final grade; level of berm mix will vary from 3 to 4 feet deep. The berm mix will be compacted by 3 passes of a dozer.

Material, 4,000 to 4,600 cu yds.

IV. Fill

Cover pond with 12 inches of fill. This will be compacted in lifts of 6 inches each, with 3 passes of a dozer. The finished surface should be reasonably smooth and free of sharp objects.

Material, 1,300 cu yds.

V. Clay Capping

Cover pond with 12 inches of clay. This material must have a permeability less or equal to 1×10^{-7} cm/sec. This will be compacted in two 6 inch lifts, with 3 passes of the dozer. Contour as shown on Drawing 0-181, to over-lap whole area and slope Eastwards.

Material, 2,000 cu yds.

VI. Soil Layer

Cover clay layer with 12 inches of select soil. This will be compacted in lifts of 6 inches each, with 3 passes of a dozer. This should be natural or imported soil capable of sustaining shallow-rooted and/or deep rooted vegetation.

Material, 2,000 cu yds.

VII. Top Soil Layer

Apply 6 inches of top soil to bring the site to final grade. This should be natural or imported top soil capable of supporting indigenous vegetation.

Material, 1,000 cu yds.

VIII. Final Grading

The final grade shall be as shown on Drawing 0-181. This will be a 2% slope to the East. The East edge will have a 10:1 maximum slope.

IX. Seeding

Seed the entire area with a local blend of grass seed, or suitable ground cover vegetation, probably in the Spring.

your controlate countries for PCND CLOSURE continued, page 3

X. Monitoring

The nine existing monitoring wells shall be sampled as required by the State.

XI. Record Keeping

A record will be kept of the pond location, size, amount of buried materials, well monitoring data, sample analyses data, and any other information required by the State.

SWS SILICONES CORPORATION Gordon C. Philbrook

Hordon C. Philbrook

Environmental Control Coordinator Professional Engineer State of Michigan 9/26/80



January 11, 1982

Mr. Brian Reicks
Michigan Department of Natural Resources
Water Quality Division
District #1
9311 Groh Road
Grosse Isle, Michigan 48138

Dear Mr. Reicks,

This letter is to confirm my telephone call to you on January 11, 1982 concerning the Closure Plan for the old evaporation-settling pond (Black Lagoon).

You said you would pull out the file and notify Mr. Roy Schrameck about our request to obtain comments concerning the Pond Closure Plan, which was submitted to the Michigan DNR on September 26, 1980.

As I indicated to you, the recently renewed NPDES Permit, Part I, A-7, compliance schedule says that we shall submit a pond closure plan and obtain approval of the plan from the Chief of the Water Quality Division by March 31, 1982.

Therefore, we are anxious to proceed with this matter and would appreciate a prompt answer from the Michigan DNR.

Yours truly,

SWS SILICONES CORPORATION

Gordon C. Philbrook

Environmental Control Coordinator

GCP:pb 82-08, Certified

SWS Silicones Corporation

ADRIAN, MICHIGAN 49221 • TELEPHONE (517) 263-5711

April 14, 1982

Mr. Roy Schrameck, District Engineer Michigan Department of Natural Resources Water Quality Division, District #1 9311 Gróh Road Grosse Ile, Michigan 48138

Dear Mr. Schrameck.

This letter is in answer to your letter of January 26, 1982 in which you requested additional information concerning the old evaporation pond, in order to evaluate our proposed Pond Closure Plan.

Table 1 attached is a summary of the pond sludge analyses for methyl chloroform in the raw sludge, the sludge leachate and the sludge/birm mix leachate.

We had problems getting a representative pond sample thru the ice and snow. We are now in the process of sampling the pond and we will send you the analyses around the end of April.

Yours truly,

SWS SILICONES CORPORATION

Gordon C. Philbrook Environmental Control Coordinator

GCP:pb 82-93, certified

cc: J. Calamungi

T. J. Sayers

Table I SWS SILICONES CORPORATION

Summary

Evaporation Pond Sludge Analyses; February 1982

Sample	Sample Location	% Methyl Chloroform(1)
A B C D E Composite (2)	NE Corner; N 1/2 N Center; N 1/2 Center; N 1/2 W; N 1/2 SE Corner; S 1/2	18% 7.0% 0.16% 2.5% 0:24% 7.1%
•		

- (1) By chloroform extraction; then NMR
- (2) Used weighted average based upon estimated volumes of sludge at each location. However, we skewed the composite to the high side, in order to get a better study of the effects of fixing with birm mix.

Samp le	Sample Location Lea	ch Water; mg/l Methyl Chloroform
C Composite (2)	NE Corner; N 1/2 Center; N 1/2	45 mg/l - 0.54 mg/l
		27 mg/1
Composite, I part	tios Leac to 4 parts birm mix to 2 parts birm mix to 4 parts birm mix	h Water; mg/1 Methyl Chloroform 0.10 mg/1 0.17 mg/1 0.09 mg/1

SWS Silicones Corporation

A'DRIAN, MICHIGAN 49221 • TELEPHONE (517) 263-5711

May 27, 1982

Mr. Roy Schrameck, District Engineer Michigan Department of Natural Resources Water Quality Division, District #1 9311 Groh Road Grosse Ile, Michigan 48138

Dear Mr. Schrameck:

As requested in your letter of January 26, 1982, we are enclosing analytical information, from duplicate samples, of the old evaporation pond water. These were analyzed for DEHP, 1;1,1 trichloroethane, trichloroethylene, 1,2-t-dichloroethylene, 1,1-dichloroethane, ethylbenzene, tetrachloroethylene, and toluene.

The DEHP was analyzed on a separate sample, and showed an ND (<20 micrograms/liter) level. However, we have not received a formal letter from Shrader labs, yet, on the DEHP results.

Based on this data, and also the fact that the NPDES parameter items, such as TSS, BOD and chlorides are also low, we would like to start discharging this pond water to the chemical sewer system at the rate of about

As you know, this water would receive further treatment in the chemical sewer system. The discharge rate would be controlled so that there would be no risk of exceeding any NPDES parameters.

Any final Pond Closure Plan must include removal of the pond water as a preliminary step. Pond water removal would eliminate the hydraulic head over the pond sludge and would also allow the sludge to dry out, so that future treatment would be more effective.

This would be of great help in meeting our pond closure target date of September 30, 1982.

Yours truly,

SWS SILICONES CORPORATION

Gordon C. Philbrook

Environmental Control Coordinator

ordon C. Philbrood

GCP:pb 82-138, certified

cc: J. Calamungi

G. L. Ford TLE BENERALISM

T. J. Sayers

bcc: L. R. Andre

L. C. Ausderau

J. M. Barancin J. W. Lorenzen

SHRADER ANALYTICAL

& CONSULTING LABORATORIES , INC.

FRIORITY FOLLUTANT SUMMARY

CUSTOMER . . SWS SILICONES CORP DATE : 20-MAY-82 SAMPLE : 7361 SAMPLE# 56304

	CONC. UNITS : MICROGRAMS/LIT	ER	LIMIT OF DE	ETECTION :	2.	
	COMPOUND		CONC.		· . #	10
				•		••
	INTERNAL STANDARD AREA:	822.		•		
	1,1,1-TRICHLOROETHANE		346.6			4
•	TRICHLOROETHYLENE ·		< 2		•	2
	1,2-TRANS-DICHLOROETHYLENE		49.1			1
	1,1-DICHLOROETHANE		346.5	•		3
	ETHYLBENZENE		< 2	•		· 1
•	TETRACHLOROETHYLENE	•	< 2	• •	•	3
	TOLUENE	- :	131.7		: :	.2
			ND =	NOT DETE	CTED	
	OTHER COMPOUNDS DETECTED				• .	

COMPOUND NAME

SHRADER ANALYTICAL

CONSULTING LABORATORIES , INC.

PRIORITY FOLLUTANT SUMMARY

The second second	- OCCUTANT	SUMMORY	
CUSTOMER	Print to the second second		!
SAMPLE	· SWS SILICONES	w es ame:	:
100	62 SAMPLE# X-56304	DATE:	20-MAY-82
1 Å 1 v ·······	X-56304		-v-1144-85
UNITS : MICEON	TO A Land		 -

CONC. UNITS : MICROGRAMO	6304 - 20-MAY-82
CONG. UNITS : MICROGRAMS/LITER	I TIMEY CO
COMPOLIND	LIMIT OF DETECTION: 2.
INTERNAL STANDARD AREA: 1003	CONC.
1,1,1-TRICHLORGETHANE TRICHLORGETHANE 1003.	# 10
1,2-TRANS-TY-	311.5
1,1-DICHLOROETHANE	2.3 4
TETRACHI OSOCTANA	307.9
TOLUENE	ND
	149.9
OTHER COMPOUNDS DETECTED	ND = NOT DETECTED 1
IONS	
	CUMPULIND NAME

(5)



NATURAL BUSOURCES COMMISSION

JACOB A. HOEFER
CARL T. JOHNSON
E.M. LAHALA
HILARY F. SNELL
HARRY H. WHITELEY
JOAN L. WOLFE
CHARLES G. YOUNGLOVE

WILLIAM G. MILLIKEN, Governor

STEVENS T. MASON BUILDING BOX 30028 LANSING, MI 45909

DEPARTMENT OF NATURAL RESOURCES

HOWARD A. TANNER, Director

Water Quality Division 9311 Groh Road Grosse Ile, Michigan 48138

July 26, 1982

Mr. Gordon C. Philbrook Environmental Control Coordinator SWS Silicones Corporation Adrian, Michigan 49221

Dear Mr. Philbrook:

We have completed our review of your September 26, 1980 Closure Plan for the "Black Pond" and subsequent submittals of January 11, January 29, April 14 and May 27, 1982. Based on our review, we are approving your September 26, 1980 Closure Plan with the following conditions:

- 1. The sludge in the Pond shall be mixed with "birm mix" at a ratio of 1 part sludge to 4 parts "birm mix" prior to any backfilling rather than just adding "birm mix" on top of the existing sludge as depicted in Part III of your Plan and drawing 0-181. The "birm mix" shall be added to the existing sludge in a manner guaranteed to provide complete mixing.
- 2. The backfill materials and thicknesses specified in Part III, IV and V of your Plan shall be adjusted to provide a minimum clay cap thickness of 36 inches while still maintaining the final grade as specified in Part VIII of your Plan and shown on drawing 0-181.
- 3. All backfill materials shall be compacted as specified in your Plan with no single lift exceeding six inches.
- 4. As 'I discussed with you by telephone on July 15, 1982, the water in the Pond can be transferred to the Chemical Sewer for treatment and discharge through outfall 00l at a rate not to exceed 30,000 gpd and on a Monday through Friday only basis.

Based on the above conditional approval, your facility is hereby considered to be in compliance with Part I.C.4.a. of NPDES Permit MI0026034.



R1026 1/79

Mr. Gordon C. Philbrook July 26, 1982 Page 2 issued to SWS Silicones Corporation on December 21, 1981. If you should at (313) 675-0860.

have any questions pertaining to this correspondence, please contact me

Yours truly,

WATER QUALITY DIVISION

Robert J. Courchaine Division Chief RoyE. Schrameck:

By: Roy E. Schrameck, P.E. District Engineer

RJC:RES/sc

cc: Bill Iversen Scott Ross John Bohunsky/WQD files

SWS Sibcones Corporation

ADRIAN, MICHIGAN 49221 . TELEPHONE (517) 263-5711

October 21, 1982

Chief Engineer
State of Michigan
Department of Natural Resources
Water Quality Division
P.O. Box 30028
Stevens T. Mason Building
Lansing, Michigan 48909

Re: SWS SILICONES CORPORATION NPDES Permit MI0026034

Gentlemen:

This letter concerns Special Condition Number Seven (7) of our NPDES permit, and is a final report and confirmation of the sludge fixation and closure of our old evaporation pond (Black Lagoon).

I am certifying in writing that the closure has been completed in accordance with the approved plan, which was submitted on September 26, 1980, with subsequent submittals of January 11, 1982, January 29, 1982, April 14, 1982, and May 27, 1982, and which was amended by a letter from Mr. Roy Schrameck of the MDNR, dated July 26, 1982.

Sincere**ly** yours, . SWS SILICONES CORPORATION

Gordon C. Philbrook

Environmental Control Coordinator

Professional Engineer State of Michigan

GCP:NM 82-339 Certified

cc: R. Schrameck, DNR, Dist. #1 Certified

J. Calamungi -

T. J. Sayers (Westport)

W. P. Pagano (Westport)

bcc: L. C. Ausderau (A/R file)

J. M. Barancin

G. L. Ford (Westport)

T. Helfgott, (Dobbs Ferry)

H. Kim

B. McClellan (Westport)

G. H. Meyer (Meyer & Kirk)

G. R. Wolf



Philbrook

SWS Silicones Corporation

ADRIAN, MICHIGAN 49221 • TELEPHONE (517) 263-5711

October 31, 1983

Mr. Allen A. Debus United States Environmental Protection Agency Region V RCRA Activities, Part B Permit Application Technical, Permits and Compliance Section 230 South Dearborn Street

Chicago, Illinois 60604

Dear Mr. Debus:

Re: RCRA Part B Application SWS Silicones Corporation EPA ID# MID075400671

5HW-13

In regards to your visit to our facility on October 13, 1983, this letter is to inform you that we have since caulked the paddiking systems under the three storage tanks, T-101, T-105, and T-108. Evidently some of the expansion joint between the pads and diking walls had failed.

We used an RTV (Room Temperature Vulcanizing) silicone sealant, which would not be affected by the solvents, in case there was a spill inside the diked area. This material is also resistant to sunlight and cold weather.

If there are any other questions or concerns, please let us know.

Yours truly,

SWS SILICONES CORPORATION

Gordon C. Philbrook

Environmental Control Coordinator

GCP:pb 83-213, certified

cc: Mr. W. C. McIntosh, MDNR, Hazardous Waste Div.; certified Mr. J. Calamungi

137-15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V

OCT 2 1 1983

DATE:

SUBJECT: Notes from RCRA Pre-permit Inspection of SWS Silicones in Adrian, Michigan, U.S. EPA

ID# MID075400671

FROM: Allen A. Debus, State Technical Unit 3 allen Jebus, 10/21/83

TO: File

THRU: William E. Muno, Chief State Technical Unit 3

On October 13, 1983, Mr. Allen A. Debus of U.S. EPA, and Bob Basch and Chad McIntosh of the Michigan Department of Natural Resources (MDNR) met with Joe Calimungi, Gordon Philbrook, and Haik Kim of SWS Silicones (SWS) for the purposes of conducting a RCRA pre-permit inspection. The hazardous waste container and tank storage areas were inspected. Additionally, the juxtaposition of the Raisin River which flows on the property, and an inactive surface impoundment were observed.

The container storage area was observed to have been placed out-of-doors on a concrete secondary containment area. The 8 inch thick concrete surface had not been epoxy-sealed, but had a diked area 3 to 4 feet high which was sufficient to contain 800 drums according to U.S. EPA regulations. The concrete surface appeared free of holes or cracks. There were 150 drums present in the area stacked 3 pallets high. A 2 feet 8 inch high ramp led into the area. The sump was closed as is normally the practice. After a daily inspection it is opened to drain any rainwater that has collected. The drained water is passed to the chemical sewer system which is then discharged under an NPDES permit.

The inspectors observed that there was 2 to 3 inches of water present on the containment area. The drums were labeled as "hazardous waste", and appeared to be in good condition. Although there were no warning signs placed around this area, SWS personnel indicated that the appropriate signs were placed about the perimeter of the facility and that the facility was managed in conformance with 40 CFR Part 264.14. Since the drums closest to the east wall of the containment area were stacked six to seven feet above the rim of the dike, it was recommended that the 3rd level pallet closest to the wall be removed and placed elsewhere, so that a fork-truck wouldn't accidentally knock drums out of the containment area onto the adjacent field.

Three tanks were observed in the hazardous waste tank storage area. Each one had its own secondary containment area to conform with MDNR rules. The tanks were resting on a concrete surface and both the concrete and the tanks appeared to be in good condition. Overflow from the secondary containment area is routinely drained through a drainage system to the chemical sewer system. The joints between diking and concrete surfaces

137-13

were not entirely intact in some instances. It was indicated that several features of the tank that should have been inspected on a daily basis (40 CFR Part 265.194) were being inspected on a weekly basis instead.

The Raisin River flows onto the SWS property, although according to the MDNR (letter dated March 25, 1982), the 100-year flood elevation is approximately 46 to 51 feet below the active portion of the facility. The information called for in 40 CFR 270.18 regarding submittal of required information in the Part B application by owners/operators of facilities located in the 100-year floodplain does not exempt facilities whose active portion lies above the 100-year floodplain. SWS does not intend to use this portion of the facility for any constructive purpose and would be willing to address this in terms of a RCRA permit condition. Perhaps the proper to address this in terms of a RCRA permit condition. Perhaps the proper procedure would be to request that SWS petition for exemption (if they want it) from the 40 CFR Part 270.18 requirement via the provisions of 40 CFR Part 260.20.

SWS also has an inactive surface impoundment on their property. At the present, U.S. EPA is not certain if it was used to treat/store or dispose hazardous wastes. Following is a brief historical outline of the recent history of the impoundment:

November - 1979

-- MDNR issues SWS a notice of violation due to groundwater contamination. SWS had violated their NPDES permit. The pond is unlined.

May - 1980

Discontinued use of the pond, no modifications effected, other than installation of groundwater monitoring wells.

Late - 1981

-- Closure plan approved by MDNR. A dike was constructed across the pond to allow evaporation on one side, but this was not successful.

July thru October, 1982 Closure effected through pond aeration and lime treatment, pumped out water which was then passed through chemical sewer system in conjunction with the SMS NPDES permit. A clay cap was added, and a top soil - grass cover added over the clay.

This writer spoke with Mr. Philbrook on October 17, 1983, and was informed that U.S. EPA must make a request in writing before SWS will send additional information regarding the surface impoundment. The U.S. EPA must do this in order to determine whether the SWS pond should have been regulated as a storage facility even though wastes were not added to it after November, 1980.

5HW-13:AADEBUS:ap:6-3731:10/19/83 (Disk #6)

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INITIALS	TYPIST 0/19/83	AUTHOR	STU #1 CHIEF	STU #2 CHIEF	STU #3 CHIEF	TPS CHIEF	WMB CHIEF	DIREC.
DATE	10/19/83	10/21/8	}		10/21/83	t		

Mr. Joseph Calimungi Director of Manufacturing SWS Silcones Corporation Sutton Road Adrian, Michigan 49221

Dear Mr. Calimungi:

We have received your Resource Conservation and Recovery Act (RCRA) Part B permit application, and additional information dated July 28, 1983. The United States Environmental Protection Agency (U.S. EPA) has reviewed this material and has determined that your application is complete. Technical review of your application will begin shortly.

In accordance with 40 CFR Part 124.3, we reserve the right to request any additional information or to schedule a site visit if we feel that it is necessary to evaluate your application.

Please contact Mr. Allen A. Debus of my staff at (312) 886-3731, if you have any questions or need any assistance.

Sincerely yours,

William H. Miner, Chief Technical, Permits and Compliance Section

137-10

TYPIST AUTHOR STU #1 STU #2 STU #3 TPS WMB CHIEF CHIEF CHIEF CHIEF CHIEF CHIEF CHIEF CHIEF CHIEF DIRL

Mr. Alan J. Howard Office of Hazardous Waste Management Michigan Department of Natural Resources P.O. Box 30028 Lansing, Michigan 48909

Re: Hazardous Waste Part B
Permit Application
Facility U.S. EPA ID#: MID075400671
Facility Name: SNS Silicones Corporation

Dear Mr. Howard:

This is to inform you that with the receipt of additional information submitted to the United States Environmental Protection Agency (U.S. EPA) dated July 28, 1983, the Part B application for SWS Silicones Corporation is now considered complete. In accordance with the FY '83 Cooperative Arrangement, you are hereby requested to conduct a technical review of SWS Silicones' Part B application. This should be completed by November 15, 1983. If the State recommends issuance of the permit, please submit a draft permit and Statement of Basis as well within two months from the date of technical review completion.

Mr. Allen A. Debus of my staff shall also perform a technical review of the complete Part B application in order to gain familiarity with the facility's operations. This will facilitate his later review of your draft permit after it is completed. If you have any further questions regarding these matters, please contact Mr. Debus at (312) 886-3731.

Sincerely,

William H. Miner, Chief Technical, Permits and Compliance Section

TYPIST AUTHOR STU #1 STU #2 STU #3 TPS WMB CHIEF CHIEF

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SWS Silicones Corporation

ADRIAN, MICHIGAN 49221 • TELEPHONE (517) 263-5711

July 28, 1983 ECEIVED

Mr. William H. Miner, Chief Technical, Permits and Compliance Section United States Environmental Protection Agency

WASTE MANAGEMENT BRANCH

Region V 230 South Dearborn St. Chicago, Illinois 60604

Re: RCRA*Part B Application Notice of Deficiency, SWS Silicones Corporation EPA ID# MID 075400671 5HW-13

Dear Mr. Miner:

This letter is in answer to the Notice of Deficiency of our RCRA Part B application, which we received on July 7, 1983.

Please refer to the attached listing which was part of your letter to us.

- Item 1. Attached are copies of updated page B-3, with the scale of miles.
- Item 2. Attached are copies of the revised page, C-20, describing the special provisions for storing ignitable wastes, as per our telephone call to Mr. Allen Debus. (It was unnecessary to have a page C-21A).
- Item 3. Also, as discussed on the telephone with Mr. Allen Debus, no hazardous waste is allowed to enter the Chemical Sewer system, which is used for NPDES treatment only. Attached are updated pages of D-5 which clarify this item.
- Item 4. The maximum stress for the three storage tanks, and the vapor pressure and specific gravity of the stored bulk wastes, are shown in attached updated pages D-5 and D-5a.
- Item 5. Attached are updated pages D-7, D-8, D-9, D-10 and D-12 with the certification stamp.
- Item 6. Attached are updated pages D-11 and D-15 which discuss in more detail the measures used to prevent overfilling of the storage tanks.
- Item 7a and 7c. Attached are updated pages F-5 and F-10 concerning weekly inspections of surrounding areas, and daily inspections of the overflow pipes and level gauges.

received

COPY 2

SWS Silicones Corporation

Mr. William H. Miner, Chief Technical, Permits and Compliance Section Page 2

- Item 7b. As discussed on the telephone with Mr. Allen Debus, the three tanks do not have temperature or pressure gauges, since these tanks are used at ambient temperatures and pressures, only.
- Item 8. A date of closure has been estimated for the container storage pad. Attached is updated page I-1.

Yours truly,

SWS SILICONES CORPORATION

Joseph Calamungi

Director of Manufacturing

JC:pb 83-144-GCP, certified

Enclosures: 4 sets

cc: G. L. Ford

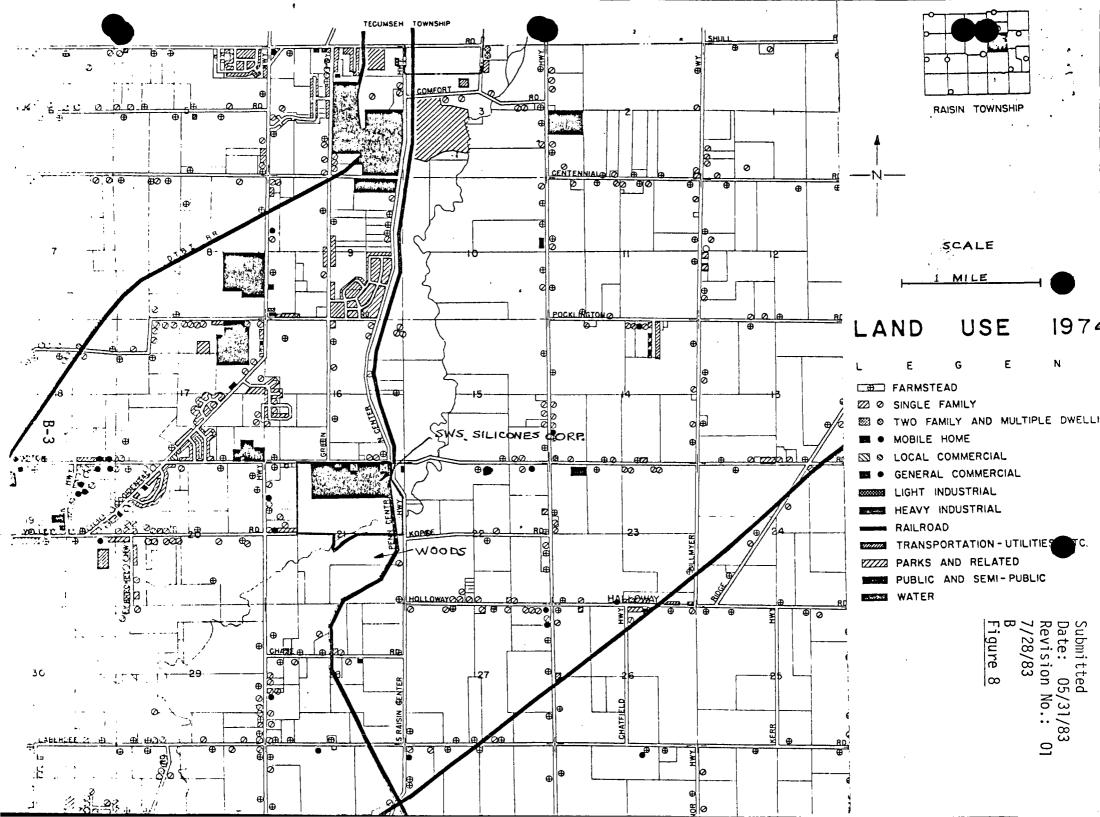
W. P. Pagano

G. C. Philbrook

ATTACHMENT FOR SWS SILICONES CORPORATION OF ADRIAN, MICHIGAN

U.S. EPA ID #MID075400671

- The topographic map shown on page B-3 of the Part B application does not include a scale of miles. A revised page showing the scale of miles should be submitted.
- 2. A description of special provisions taken for storing ignitable wastes should be provided. This should appear after page C-21 in the Part B application.
- 3. You should supply additional information describing your "chemical sewer" referenced on pages D-4 and D-5 of the Part B application. Particularly, how will this system prevent the release of hazardous wastes that are spilled in the containment area?
- 4. What is the maximum stress allowed by API Standard 650 for Tanks T-105 and T-108, and by ASME Code Section VIII for Tank T-101? What is the vapor pressure and specific gravity of the wastes stored in each of the respective tanks?
- 5. In Section D, several technical drawings were submitted without the proper certification. This must be provided.
- 6. What controls or measures are used to prevent overfilling of each tank?
- 7. Your inspection log for tanks should be a modified to reflect the following activities:
 - a. The area surrounding each tank should be inspected at least weekly to detect signs of leakage.
 - b. Data gathered from monitoring equipment (e.g. pressure and temperature gauges) must be inspected at least once each operating day to ensure that the tank is being operated according to its design.
 - c. Tank overfilling equipment must be inspected at least daily to ensure that it is in good operating order.
- 8. You must provide an estimate for the date of closure for container storage to supplement your closure plan. This estimate may be based on the postulated working life of the containment area.





JACOB A. HOEFER ROBERT HOLMES E. M. LAITALA HILARY F. SNELL PAUL H. WENDLER HARRY H. WHITELEY



JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

STEVENS T. MASON BUILDING BOX 30028 LANSING, MI 48909

James F. Cleary, Acting Director

July 15, 1983

Mr. William H. Miner, Chief Technical, Permits & Compliance Section U.S. EPA-Region V 230 South Dearborn Chicago, Illinois 60604

Re: SWS Silicones Corporation

MID 075400671

Dear Mr. Miner:

The Part B Application for SWS Silicones Corporation has been reviewed for completeness.

The review checklist was completed and the response letter was drafted well within the time frame of the Cooperative Agreement which was noted in your 6/7/83 letter to Alan Howard. On July 8, we received your July 1, notice of deficiency to SWS Silicones. We concur, in general, with the notice of deficiency.

The deficiency comments appear to be of a technical nature rather than a completeness check. The review checklist that is enclosed represents only a completeness review. The technical review will begin after the application is determined to be complete.

Please send a second Part B Application. Contact me at (517) 373-2730, if you have questions.

Sincerely,

W. C. McIntosh, Engineer Permit & Licenses Unit

N.C. Mc tu

Hazardous Waste Division

Enclosure

cc: J. Traub, U.S. EPA

R. Lundgren





JUL 0 1 1983

Rr. Joseph Californii SES Siliconed Corporation Setten Road Adrian, Michigan 49221

> RE: Motion of Deficiency Facility at Setton Road Adrian, Michigan EPA 108 *18075400671

ther Mr. Caliminet:

Fortuant to Section 3005 of the Resource Conservation and Recovery Act [RCRA], as assended and Code of Federal Regulations 40 CFR 270.10, 270.14 through 270.29, and 124.3, my staff has completed an initial review of your Part 5 Application for an RCRA persit to treat and store hezardous waste. The purpose of this initial review is to check for completeness of your parall application against a list of required information aglineated on pp. 2009-2001, FR 46, January 12, 1981.

As a result of this review; we found that your application is incompletely because it is deficient in several areas. You will be notified that the application is complete after you have corrected these deficient areas described in an attachment to this letter. The due date for the submittal of such information is September 1, 1982. However, you are encouraged to submit to us this information at your earliest convenience.

In reviewing your application for completeness, we have found areas where clarifications or supplicated information are maded for our review. We are, therefore, requesting that copies be provided in quadruplicate to a for review. Please note that requests of this type do not affect the latur of your application.

Our Agency intends to work closely with the Michigan Department of Matural Resources (MDMR) in processing your Part B application. Vo will forward copies of all material submitted to the MTMR.

1 1 83

137-6

Agein we are committed to conducting the ACRA permitting process as promptly and efficiently as possible. Please feel free to contact Mr. Allen A. Debus of my staff at (312) 886-9731 if you have any questions regarding this review. Sincerely yours,

William H. Miner, Chief Technical, Permits and Compliance Section

Attachment

cc: Alan J. Howard

Michigan Department of Matural Resources

bcc: Joe Boyle (SIO)

Jodi Traub (SS)

Whithous 21m #1 21m #5 21m #3 THES WWWBB W/. CHUEF

ATTACHMENT FOR SUS SILLICOUS COMPRESSION OF AURISM, MICHIGAN N.S. 194 19 MINO75400671

- I. The topographic pay shown by page 512 of the Part 5 application does not for the same and the same and the same and the same of all or
- 2. A description of special provisions taken for storing lyttable watter appearance by the part of the
- You should supply additional information describing your chaptest some This remains any and the same and the part of the Part The state of the s
- A chart to the nations stress allower by art Standard 650 for Table T-105 186 Tolley and by Art Cody Section VIII the Table Tolley Tolly Name of the second seco POSTACT TO SERVEY
- to le section ? Executi technical drawings were estalted without the proper
- To what controls or pressures are used to prevent overfilling of each tank?
- 7. Your inspection for tenks phould be a modified to reflect the following
 - a. The area correcting each task should be despected at least weekly to
 - Take gettered from monitoring equipment (e.g. pressure and tomograture Carried 1 was an inches of the same and a same and a same as a sam that the task is being wereted according to its deaten.
 - er Tatic Overestians equipment must be instincted at least deliv to ensure
- To you must provide an estimate for the date of closure for container storing to embediance have an energian and the state of the state

should also have a vacuum relief value.

1983 JUN 7

Mr. Alan J. Howard Hazardous Waste Division Michigan Department of Matural Resources P.O. Box 30028 Lansing, Michigan 48909

Facility EPA ID #:

MID 075400671

Facility Name:

SWS Silcones Corp.

Facility Address: 3901 Sutton Road

Adrian, Michigan

Dear Mr. Howard:

Enclosed is one copy of the Part B application and correspondence for the above referenced facility.

Your agency is requested to perform a completeness check of the application, prepare comments and draft a deficiency letter if appropriate. Please forward the filled-in checklist, review comments, and draft letter to this office by July 15, 1983. This will allow my staff 2 weeks to review the comments and issue the letter before expiration of the allotted 60 day review period.

Please contact Mr. Allen A. Debus, the responsible U.S. EPA person at 312/286-3731, if you have any questions regarding the application.

Sincerely yours,

William H. Miner, Chief Technical, Permits and Compliance Section

Enclosure

Joe Boyle, (SIO) bcc: Jodi Traub, (SS)

5HW-13:ADEBUS:ap:6-3731:6/3/83

One 6/6/83 MMD TYPIST AUTHOR STU #1 STU #2 STU #3 WMB **TPS** DIRECT CHIEF CHIEF CHIEF CHIEF CHIEF

STATE OF MICHIGAN



JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

STEVENS T MASON BUILDING BOX 30028 LANSING, MI 48909 HOWARD A. TANNER, Director

January 20, 1983

Mr. Allen DeBus U. S. Environmental Protection Agency Region V 111 West Jackson Boulevard Chicago, Illinois 60604

WASTE MANAGEMENT BRANCH EPA REGION V

JAN 24 1983

Re: Service No. 8203 119

River Raisin

NE₄, Section 21, T 6 S, R 4 E

Raisin Township Lenawee County

Dear Mr. DeBus:

NATURAL RESOURCES COMMISSION

E M LAITALA HILARY F SNELL

PAUL H WENDLER

HARRY H WHITELEY

I have been asked by Mr. Philbrook of SWS Silicones Corp. to explain our flood estimate of 721, USGS datum at the above location. Enclosed is a copy of the U.S.G.S. gage data for that area.

From the gage data, note the gage datum is elevation 707.0. The flood of record occurred in June, 1968 with a discharge of 2,900 cfs and a resulting stage of 12.66 feet (elevation 719.66). The gage is directly across the river from SWS Silicones and all data are directly applicable.

The 100-year frequency flood discharge has been calculated by this office at 4,090 cfs. We estimate this would produce a stage of approximately 14 feet, or elevation 721.0. We know from other areas on the River Raisin that flood discharges for the 100-year flood raise stages by about 9 to 10 feet over normal water elevations. This agrees very closely with known water surface elevations at this site of zero flow stage equal to 709.1 and normal flow stage equal to 711.7.

Since SWS Silicones' plants are located at elevations 767 and 772, from 46 to 51 feet above expected flood stage, they are obviously well above any expected flood levels. To require their company to perform a detailed analysis of the riverine system would be very expensive and produce

Mr. Allen DeBus January 20, 1983 Page Two

results refining the flood elevation by only a matter of tenths of a foot.

Should you have any further questions in this regard, please feel free to contact me (517/373-3930).

Sincerely,

Wallace A. Wilson, P.E., Chief

Flood Hazard Regulation Water Management Division

WAW:cjs

Enclosure: Gage record

cc: G. C. Philbrook

9-197 (Nev. 1334)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

File No.	Washington 4-1757.
	Field

WATER RESOURCES DIVISION

Description Prepared 9-12-56

by A. J. Quigley

Revised by D. E. Bower 11-19-62

Description of Gaging Station on River Raisin near Tecumseh, Michigan

(Prepare description in accordance with outline on back of Form 9-277. Plot cross section to scale. Use Form 9-213A or 9-213E for cross section. Use second page of this form for sketch if room is available, otherwise use Form 9-213C or 9-213H. Initial and date all sheets.)

Location. -- Lat 41°56'35", long 83°56'45", in NE% sec. 21, T. 6 S., R. 4 E., on right bank, 12 ft downstream from bridge on N. Raisin Cen. Highway, and 4.5 miles south of Tecumseh.

To reach gage from - Tecumseh - At signal light at W. Chicago and South Evans, go south on South Evans 4.5 miles to bridge and gage. (South Evans changes to N. Raisin Cen. Road at city limits).

Established. -- Sept. 7, 1956 by A. J. Quigley.

Drainage area. -- 266 square miles.

Gage. -- An F & P digital and a Stevens A 35 recorder in concrete block house and well. Outside gage is wire weight gage located on downstream side of bridge which is 12 ft upstream from gage house. Inside gage is enamel staff gage plate reading from 0 to 16.86 and fastened to downstream wall of well.

Reference gage is electric tape gage set on instrument shelf to left of recorder. Well is equipped with three 2-inch intakes the 2 bottom ones of which are connected by 3-way valves to 3 cu ft tank for flushing.

Gaga elevations of pertinent parts are as follows:

	~~~~
Bottom of well	0 fest
Lower intake, river end	.6 "
Lower intake, well end	1.2 **
Middle intake, river end	1.9 "
Middle intake, well end	2.2 "
Upper intake, river end	2.7 "
Upper intake, well end	3.2 "
Sub-floor	7.3 "
Floor of House	14.1 "
Instrument shelf	17.00"
ETG indax	17.908"
Chark har	17 2711

Datum of gage is 707.0 feet above mean sea level, datum of 1929.

History.--Recording gage started on River Raisin near Adrian about 5.5 miles downstream in October 1953 and has been operating contingously since.

A Stevens recorder operated in present house until Nov. 15, 1962 when the digital recorder was installed.

edicument paid for with State funds

Channel and control. -- Channel and streambed are of mud, san and small gravel.

Main channel is confined to small valley about 1000 ft wide which is generally about 40 ft below surrounding countryside. River wanders throughout valley floor. Both banks are fairly low and covered with small trees and brush.

Overflow starts on right bank at about gaze height 7 ft. Channel is straight for 50 feat above and 300 feet below station.

Low-water control is-gravel riffle 200 ft below gage and is believed to. be fairly permanent.

High-water control is channel and extreme high water is probably railroad bridge abutments 225 ft below gage.

Discharge measurements. -- Low-water measurements can be made by wading on control or at almost any section from bridge to 300 ft above bridge up to a stage of about 5.5 ft. High-water measurements can be made from highway bridge 12 ft above gage. Both handrails of bridge are marked with single paint stripe every 5 feet to 40 feet and then every 2 feet to 90 feet. Numerals are painted next to stripe every 10 feet. Initial point is at right bridge abutment.

Floods. -- A discharge of 1200 cfs occurred on Mar. 7, 1959 at a gage height of 10.33 ft.

Point of zero flow. -- 2.1 ft Sept. 10, 1956, probably shifting.

Winter flow. -- Stage discharge relation probably affected by ice during extreme cold weather.

Regulation and diversion. -- Diurnal fluctuation caused by municipal power-plant at Tecumseh 5.5 miles upstream. A number of other small dams further upstream may have slight effect upon flow.

Accuracy. -- Conditions for obtaining gaga-height record are excellent. Conditions for measuring discharge are excellent at low stages and fair at high stages due to varying angles.

Cooparation .-- City of Adrian, State of Michigan Water Resources Commission.

Sket 1 .--

Photographs. -- In district files.

Reference marks. -- RM 1 is chiseled cross on 19th rivet below bridge nameplate in downstream row of rivets at right downstream end of bridge. Elevation 16.116 ft., gage datum.

RM 2 is chiseled cross in I beam encased in right downstream bridge abutment at right edge of gage house walkway. Elevation 14.066 ft., gage datum.

RM 3 is ½" machine bolt in 18" diameter tree 5 ft north of gage house. Bolt is 18" above ground in north side of tree. Elevation 11.535 ft., gage datum.

ADRIAN, MICHIGAN 49221 • TELEPHONE (517) 263-5711

December 23, 1982

Chief Engineer State of Michigan Department of Natural Resources Water Quality Division P. O. Box 30028 Stevens T. Mason Building Lansing, Michigan 48909

Re: SWS Silicones Corporation NPDES Permit MI 0026034

Gentlemen:

This letter concerns Special Condition Number Six (6) of our NPDES permit, and is a report summarizing our findings of the DNR-approved Phase II Hydrogeologic Study Plan for the old evaporation-settling pond.

Please note that the pond has been out of service since May, 1980. The pond has since been drained, closed, and capped in accordance with the DNR-approved plan, and in compliance with Special Condition Number Seven (7) of our NPDES permit.

The following information is enclosed:

- Gilbert/Commonwealth report entitled "Permeability Testing of OW-Series Observation Wells for SWS Silicones Corporation, Adrian, Michigan".
- Gilbert/Commonwealth report entitled "Ground Water Flow Beneath the Sealed Evaporation and Settling Basin at SWS Silicones Corporation, Adrian, Michigan".
- Summary Table of Well analyses for June 9, July 21, and August 11, 1982.
- 4. Inter-office memo from B. S. McClellan, dated December 20, 1982, entitled "Estimate of Mass Loading, Phase II Hydrogeologic Investigation, Evaporation and Settling Basin, Adrian".

This report concludes our study of the evaporation-settling pond portion of the Phase II Hydrogeological Investigation.

Yours truly,

SWS SILICONES CORPORATION

Gordon C. Philbrook

Environmental Control Coordinator

GCP:pb 82-377, certified

cc: R. Schrameck, MDNR, District #1, certified

J. Calamungi

bcc: J. M. Barancin

G. L. Ford

H. Kim

B. S. McClellan

G. H. Meyer; Meyer & Kirk

T. J. Sayers

G. R. Wolf



#### INTER-OFFICE CORRESPONDENCE

Head of the Westport

in surveix : Adrian

B.S. McClellan

12/20/82

.

G.C. Philbrook

Sr. Hydrogeologist

( ) / ( )

J. Calamungi

G.L. Ford

D. McGrade

T.J. Savers

Estimate of Mass Loading, Phase II Hydrogeologic Investigation, Evaporation and Settling Basin, Adrian

This report presents an estimate of mass loading from the basin to the river. This estimate is based on my review of the information obtained during the Phase II Hydrogeologic Investigative work performed in regards to the now closed Evaporation and Settling Basin. Specifically I have reviewed two reports by the outside contractor Gilbert/Commonwealth.

38 22 F

- Report No. 1 Permeability Testing of OW-Series Observation Wells For SWS Silicones Corporation
- 2. Report No. 2 Ground-Water Flow Beneath the Sealed Evaporation and Settling Basin at SWS Silicones Corporation, Adrian, Michigan

Also reviewed were the results of chemical analysis performed by SWS Silicones Corporation on samples collected from the nine observation wells on June 9, 1982, July 21, 1982 and August 11, 1982.

The purposes of this work has been to obtain the information needed to estimate the mass loading (in pounds per unit time) to the river from the basin area via ground-water discharge from the "Perched and Near Surface Aquifers." Based on the work conducted the estimated cumulative total mass loading for the chlorinated organic chemicals analyzed was 0.502 pounds per day from the "Perched Aquifer" and 0.003 pounds per day from the "Near Surface Aquifer." Ground-water in the "Perched Aquifer" (shallow) discharges along the upland slope to the floodplain swampy area and from the "Near Surface Aquifer" (deeper) to the floodplain swampy area and the River Raisin.

#### Discussion of Methods Used

Ground-Water Discharge Rate: The ground-water discharge rate was determined by Gilbert/Commonwealth for both the "Perched Aquifer and Near Surface Aquifer." In order to accomplish this it was necessary to determine the in-site permeability of the soil contained in each saturated zone and construct a structural/hydrogeologic model of the site from which the dimensions of ground-water flow could be determined. The work performed and conclusion reached are described at depth in Reports No. 1 and No. 2. In Report No. 2 Gilbert/Commonwealth has presented a discharge rate of 3359 gpd for the "Perched Aquifer" and 2558 gpd for the "Near Surface Aquifer." These discharge rates represent the volume of ground water per unit time that will pass through a cross-sectional area situated downgradient of the basin and are representative of flow in the aquifers beneath the basin.

Chemical Analysis: Ground-water samples from the existing OW-Series wells were analyzed by SWS Silicones for the proposed list of chemicals. Samples were collected on June 9, 1982, July 21, 1982 and August 11, 1982. Using the analytical results from wells 1S, 1D, 4S and 4D (S-perched aquifer and D-near surface aquifer) an average concentration for each chemical in ground-water downgradient from the basin in each aquifer was obtained. Table 1 shows the actual analytical results for each compound, on each date sampled, for the downgradient wells and the average concentration obtained.

TABLE 1
Perched Aquifer

	Well No./Date Sample					Average Concentration	
Chemical - mg/L		15			4S		Mg/L
	6/9	7/21	8/11	6/9	7/21	8/11	
TOC	30	900	1000	20	34	360	390.7
Hydrolyzable (Ionic or Non-Organic) Chlorides	950	1600	2157	1280	1390	1978	1559.2
1,1,1-Tri- chloroethane	3.7	5.5	6.9	3.0	2.5	3.	.6 4.2
1,1-Dichloro- ethane	17.0	28.0	36.0	N. D.	0.4	0	.35 13.6
t-1,2-di- chloroethylene	N• D•	N• D•	N• D•	0.8	0.03	0	.03 0.14
Di-n-butyl phthalate	< 0.025	5	<b></b>	N• D•			0.013

TABLE 1 - (Continued)

#### Near Surface Aquifer

	Well No./Date Sampled Average						Average ncentration
Chemical - mg/L		1D	<del></del>		4D		mg/L_
	6/9	7/21	8/11	6/9	7/21	8/11	
TOC	13		100	8	8	11	28.0
Hydrolyzable (Ionic or Non-Organic) Chlorides	855		1180	273	235	249	558.4
1,1,-Trichloro- ethane	0.13		0.12	0.08	0.06	0.18	0.11
l,l-Dichloro- ethane	N. D.		N. D.	N•D•	N• D•	N.D.	N. D.
t-1,2-Dichloro- ethylene	N. D.		N. D.	0.04	0.05	0.16	0.05
Di-n-butyl phthalate	N. D.			N. D.			N. D.

Mass Loading Determination: Using the average concentration for each compound (mg/L) in each aquifer and the discharge rate for each aquifer (Liters/day) an estimate of the mass loading for each compound (pounds per day) in each aquifer was obtained. The results of this determination are presented in Table 2 along with the cumulative totals for chlorinated organics. It is important to note that in making this determination no consideration was given to the attenuative capabilities of the water bearing soils or the hydrolytic stability of the compounds involved. Therefore, the results presented here should be viewed as a worst case situation and the actual amounts of the observed compound reaching the discharge areas could be significantly less.

TABLE 2

Mass Loading Determination Lb./day

Compound	Perched (Shallow) Aquifer	Near Surface (Deeper) Aquifer
TOC	10.9	0.6
Hydrolyzable (Ionic or Non-Organic) Chlorides	43.6	11.9
l,l,l-Trichloro- ethane	0.118	0.002
l,l-Dichloro- ethane	0.380	N. D.
t-1,2-Dichloro- ethylene	0.004	0.001
Di-n-butyl Phthalate	< 0.001	N. D.
Chlorinated Organio	os 0.502	0.003

#### Conclusions

- 1) I believe that the representation of hydrogeologic conditions presented by Gilbert/Commonwealth are reasonably accurate. Furthermore, because of the relatively high permeability values used for the type of materials described and the recent elimination of the Evaporation and Settling Basin as a source of recharge, I believe that the ground-water discharge rates presented are on the high side. Based on this I do not predict significantly higher values for discharge than those used here.
- 2) Given that the Evaporation and Settling Basin is now closed and caped the mass loading determinations presented here should be considered a high point. The elimination of the basin as a potential source of recharge to the "Perched Aquifer" should result in a reduction of mass loading values presented here.

3) When considering the mass loading values presented here it is important to keep in mind that this discharge does not occur from a point source but is spread out over a significant area as shown on Figure 5 and 6 of Report 2 by Gilbert/Commonwealth. Also discharge is not directly to the river but to a swampy area and it is questionable as to how much if any of the estimated mass loading reaches the river.

If you have any questions please call.

3.S. McClellan

BSM005:dm

TABLE I
Old Evaporation Pond, Well Analyses
For June 9, July 21 and August 11, 1982

				mg/	<u>'1</u>		
	-	T.O.C.		(	hloride	<del></del>	di-n-butyl-phthalate
<u>Well #</u>	6/9	7/21	8/11	<u>6/9</u>	7/21	8/11	<u>6/9</u>
15	30	900	1000	950	1600	2157	≤ 0.025
1D	13	100	(1)	855	1180	(1)	ND(2)
2\$	29	28	24	440	410	547	ND ⁽²⁾
2D	5	(1)	(1)	240	(1)	(1)	≤ 0.030
3\$	14	13	14	190	400	537	ND ⁽²⁾
3D	5	7	6	174	250	239	≤0.025
45	20	34	360	1280	1390	1978	ND(2)

273

370

	1,1,1 trichloroethane		t-1,2-dichloroethylene			1,1 dichloroethane			
<u>Well #</u>	6/9	7/21	<u>8/11</u>	<u>6/9</u>	7/21	<u>8/11</u>	<u>6/9</u>	7/21	8/11
15	3.7	5.5	6.9	ND	ND	ND ⁽³⁾	17	28	36
10	0.13	0.12	(1)	ND	ND	(1)	ND	ND	(1)
2S	0.25	0.40	0.61	0.74	0.65	0.67	ND	ND	0.01
2D	ND	(1)	(1)	ND	(1)	(1)	ND	(1)	(1)
3S	0.30	1.0	1.7	ND	ND	0.01	ND	ND	0.01
3D	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>4</b> S	3	2.5	3.6	0.80	0.03	0.03	ND	0.40	0.35
4D	0.08	0.06	0.18	0.04	0.05	0.16	ND	ND	ND
5	0.25	0.20	0.31	0.14	0.25	0.40	ND	ND	ND

8

14

4D

5

8

16

11

18

ND(2)

ND⁽²⁾

249

403

235

370

⁽¹⁾ Insufficient water for sampling.

⁽²⁾ Detection limit about 0.02 mg/l.

⁽³⁾ Detection limit about 1.0 mg/l in this sample.

⁽⁴⁾ Other ND (None Detected) limits about 0.01 mg/l.

G. C. Philbrook 12-22-82

Mr. Joseph Calimungi Director of Manufacturing SMS Silicones Corporation Sutton Road Adrian, Michigan 49221

RE: #10075400671

Dear Mr. Calimings:

By now you should have received our letter requesting submittal of the Hazardous Maste Permit Application, Part R, for the above referenced facility.

A guidance document has been prepared for the use of hazardous waste management facilities in the preparation of their permit applications. A copy of that document is enclosed for your use.

A one-day workshop/seminar for Part R applicants is being scheduled for January 10 and 11, 1983. You will be further advised of the time and location as soon as arrangements have been made.

In the meantime, please contact me at (312) 886-3731, if you have any questions. Sincerely yours,

Allen A. Debus Permit Contact Technical, Permits, and Compliance Section

Enclosure

cc: Alan J. Howard, Chief Office of Pazardous Haste Management Hichigan Department of Matural Resources

5HW-TUB: ADebus: THaywood: 12/16/82

# CENTIFIED RAIL

Juseph Callebryi Firector of Manufacturing SNS Silicones Corp. Sutton Esad Adrian, Michigan 19271

> HE: SWS Silicones Corp. Sutton Road Adrian MI 49971 MINOTSANOA71

Sear Fr. Collemais

By now you should have received an acknowledgment of our receipt of the Part A permit application material for the above-referenced hazardous waste facility under the Resource Conservation and Recovery Sci (ECRA) permit program.

Accordingly, this letter constitutes the next step in the formal process leading toward issuance or decial of an FCRA permit. Under the authority of 40 CFA 182.22, this is a formal request for submittal of Part 8 of the permit epplication for the above-referenced facility.

Enclosed is a copy of 60 CFW 172.26 which lists the items required for submitting the Part P pervit application for the facility. The Part P application must be submitted in quadruplicate and postsarked no later than Emp 31, 1983. Please uniquely number each page of the application including all attachments (maps, specifications, etc.). A certification statement identical to one stated in 40 CFB 122.5(d) must accompany the application and all additional submittals. Send your application to the following address:

SCAR ACTIVITIES

Part P Parent Application
6.5. SPA, Section b
P.O. Son ASSAT
Cofcaes, Allients Eveno-3687

he are committed to conducting the 2004 permit process as officiently as possible. Consequently I suggest you contact he. alien Debus of my staff, at (312) PAC-3231, as you begin preparing your application. Hr. Debus will be available to discuss specific meads of your application or to seet with you in Chicago. Those efforts are intended to generate complete applications, without requiring any information beyond that which is necessary to make accapangle decisions.

Failure to furnish the complete Part B permit application by the above date, and to provide in full all required information, is grounds for termination of interim status under 40 CFR 122.22.

Information you submit in the Part B permit application can be disclosed to the public, according to the Freedom of Information Act and U.S. Environmental Protection Agency (U.S. EPA) Freedom of Information regulations. If you wish, however, you may assert a claim of business confidentiality by printing the word "Confidential" on each page of the application which you believe contains confidential business information. U.S. EPA will review business confidentiality claims under regulations at 40 CFR Part 2, and will later reguest substantiation of any claims. Please review these rules carefully before making a claim.

If you claim parts of the application as confidential, please provide us with a public information copy of the application. The public information copy must be identical to the full application with the exclusion of the confidential information.

We have also enclosed a copy of 40 CFR Part 264 which includes technical standards for the operation of treatment and storage facilities. These standards will become applicable upon issuance of an RCRA permit to your facility by U.S. EPA.

We will coordinate review of the application with the Michigan Department of Natural Resources, and if the application is acceptable, will strive for a simultaneous issuance of Federal and State hazardous waste facility permits. It is possible that during the processing of the application, the State hazardous waste program may become authorized to issue RCRA permits for your type of facility. In that case, direct Federal processing will cease, and the State in lieu of U.S. EPA will make the final determination on your application.

We look forward to receiving your Part B permit application.

Sincerely yours,

Karl J. Klepitsch, Jr., Chief Waste Management Branch

Enclosures:

40 CFR 122.25

40 CFR 264

cc: L. B. Bruner

Vice-President and General Manager

SWS Silicones Corp.

Sutton Road

Adrian, MI 49221

Al Howard, MDNR

hcc: Allen Debus Part B file

DATE 5HW-TUB: ADebus: THaywood: 11

STU #1 | STU #2

WMD WMD CHIEF

## Please print

# Facility SWS S//Scores 1.0. # M26 075 400 67/

Item No. Item Date Desc	<u>ription</u>	<pre>Item Filed *</pre>
137-47 7/17/84	News Release	see 6
137-48	Radio Broadcast Announcement	
137-49 6/4/84	Comment: Klepitsch, from Bigelos	<i>o</i> 6
137-50 6/6/84	Comment: Ohn, from Guenther MONR	tori 6
137-51 s/25/BY	Certificate of Mailing	6
137-52	Mailing List crossed out	6
137-53 8/1/84	Memo: Ohn to Ochas	<u> </u>
137-54 8/10/84	memo: Christens on to Klepits	ch 6
137-55 9/2/84	Lotte U.SIEPA to Calamona	t 2
137-56 9/1/84	Responsiveness Summary on	
	Sign off page	
137-57 7/2/84	News Release (finalist Copy is	(7) 6
137-58		<u>//</u>
	•	
	-	
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,		
	THE CONTRACTOR OF THE PROPERTY	

Please print

# Facility <u>SWS Si/itomes</u> I.D. # <u>MID 075 40067/</u>

<u> Item No. Item Date</u> <u>Descr</u>	ription	Item Filed★
137-25 4/9/84	Note to File	3
137-26 4/6/84	Letter Mitachment Miner (+ note)	2
137-27 4/11/84	Phase how	3
137-28 4/19/84	Letter - Milhook to Debus (w/attack	
137-29 4/30/84	Note to Debus	3
(37-30 5/2/84	Note to Bernan.	3
37-31 5/11/84	Menno: Christenson Fromklep	
137-32 5/15/84	See 137-29(typed cory	(of) 3.
137-33 5/23/84	Mano to File I w/ attachme	. 11
137-34 7/24/84/	Meno to Fle	4
137-330 7/18/84	Jetter Phillrook to Delins	, 12
· 137-35 · 7/24/84	Clatemant of Basis.	5
137-36 3/25/84	Public Note	\$ 6
137 - 37	Droft Permit	5_
137-38 5/15/84	Public Voucher for advertising	6
137-39a-d 5/21/84	cover letters for public notice mailin	9 6
137-40 5/18/84	Requisition for Radio Broadcast [WQTE (FM)]	6
137-41 5/18/84	[WARJ(4	m)] 6
137-42 7/3/84	Affidavit of Performance [WOTE	[FM] 6
137-43 7/5/84	LAAW] '' [WAD]	(AM) ] 6
137-44 5/22/84	cover letter to public library	6
137 - 45 7/13/84	cover letty for PSA [WLENCF	
137 -46 7/13/84	IN IN MEMARY + MC	)TE] 6

# Please print

# Facility SWS SILICONES CORP

# I.D. # MID 075 400 671

137-1 Log 137-2 1/20/83 Jetter of the Wilson (MDNR) to A. Debun Sec 2 137-3 6/7/83 Meeting Notes Sec 4	
31-2 1/d0/83 Letter W. WIISON (MDNR) W. A. Debun Sec 2	
137-3 6/7/83 Meeting Notes Sec 4	
137-4 6/7/83 Jetter Miner to Howard Sec 2	<u>.</u>
137-5 6/10/83 Completences Check (U.S. EDA) Sect	<u>+</u>
137-6 7/183 Notice of Defreiency Sec2	
137-7 7/15/83 State Completeness Chk (State ERA) Sec	B4
137-8 7/28/83 SWS Silvanas Jetter to Mines See 2	د .
137-9 8/30/83 Calculation of Shell Thickness Sec.	
137-10 9/29/83 Jotta Miner to Calimongs See =	
137-11 10/4/83 Letter: Miner to Howard Sec 2	
137-12 10/13/83 Document received during Site inspection See.	
137-13 10/21/83 Trip Report by Delans See 1	_
137-13a 10/21/83 11 " " Vellion Ser	
137-14 10/25/83 Jetta: Morres to Calimongie Sec 2	
137-15 10/31/83 Jetta: Philbrook to Delius Sec 2	
137-16 11/22/83 Lette: (alamunon to Miran Sec =	
137-17 12/5/83 Note to File - Debus / Ressurface + Sec.	<u> </u>
137-18 12/13/83 Letter: Miner to Howard Important Se 2	
137-19 12/13/83 Jeller: Miner to Calamina Sec. 3	2
137-20 1/31/84 Note to File Se	<del>-</del> 4
137-21 2/1/84 Basis for excluding waster Sec 4	<i>†</i>
137-22 3/12/84 Letter with this book to Debus Sec 2	·
	<b>)</b>
137-23 3/13/84 Note to Jule (whatchement) See 3 137-2/a 2/3/84 Jetth Phillips Folder 1 is arranged by sections See 2	••••
137-24 3/23/84 Felter Phillmonk to 3 Debus Sec 2	

Please print

Facility Wacker Siliconos Corporation

ID # MID 075 400 67

Item #	Item Date	Description / OC	Item Filed *
	<del></del>	609	
_2_	2/24/89	Environmental Arneon	4
3	2/10/89	Letter: RTRADDUSERA TREA BUNCH MONR	3
4	2/0/89	MEMO: RICAUD RPB to J.DIKINIS &F	3
5	3/10/89	MEMO: RICHUD USEPA VEN BUNDE MUNIC MEMO: RICAUD RPB to J.DIKINIS &F OSERA. to WOCKER SILICONES Letter: DA.VIIIICH, ADD GONDON PHILDROOK	$\frac{1}{2}$
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¹ 

### RCRA FINAL PERMIT SIGN-OFF

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PA	RT I.	BACKGROUND	Chile	0.0/0		_			
		FACILITY NAME	<i>7</i> 1		mes Corp	) <u>s</u>			
$\int \int$	·)	FACILITY LOCATION	Adria		1				
4	<b>L</b>	RCRA ID NUMBER	-/W/D	07540	0067/				
,		TYPE OF PERMIT							
$\bigcap$		Storage		Treatment		Disposa	1		
IN		Container	·	Tank	<u></u>	Injecti	on Well		
		Tank Surface Impoundment Waste Pile Incinerator					Landfill _Land Application		
		Surface Impour	ndment	Other (Deto	nation)	Surface	: Impoundme		
PA	RT II.	REVIEW PACKAGE CON	ΓENT						
		V Final Permit	w/Attachme	nts		( Land			
		Res pons i venes	s Summary	:	SEP 1				
		Letter to Con Administrativ	nmentors	1.6	ASTE MATE	<b>.</b>			
		Administrativ		Ą	BRANCH				
PAR	T III.	CONCURRENCES							
		WASTE MANAGEMENT E	BRANCH	INITIALS	DATE	AGREE	DISAGREE		
	1.	TECH. PERMIT CONTA		AD.	8/7/84	( )	( )		
	2.	CHIEF, STATE TECH	NICAL UNIT3	WEN	8/7/14	( )	( )		
	3.	CHIEF, TP&C SECTION	N	WARN	3/2/2/	(X)	( )		
	<b>3A.</b> 4.	CHIEF, SPIS CHIEF, WASTE MAN.	BRANC H	Allen	SIMINI SILVAL	(1)	( )		
		OFFICE OF REGIONAL	COUNSEL	M	9.707				
	<b>(</b> ⁵ .	ASSIST, REG. COUNS Berman	SEL,			( )	(		
ste	)			<del></del>		,			
ORC initials on yellow	<b>6.</b>	CHIEF, SOLID WASTE RESPONSE BR.	& EMER.		<del></del>	( )	( )		
tissurs	7.	REGIONAL COUNSEL				( )	( ^ )		
PAR	RT IV.	APPROVAL	M		9/1				
		DIRECTOR, WASTE MADIVISION	NAGEMEN	JAC .	10/84	(1)	( )		
		014131014	1110	107	. /				

Section Log ORC